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Department List No. 1.

LIST OF PUBLICATIONS

OF THE

AGRICULTURE DEPARTMENT

1862-1902

WITH ANALYTICAL INDEX

Prepared in the Office of the
SUPERINTENDENT OF DOCUMENTS
GOVERNMENT PRINTING OFFICE

WASHINGTON
GOVERNMENT PRINTING OFFICE
1904

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AGRICULTURE DEPARTMENT

1905

THE AGRICULTURAL INDEX

DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL ECONOMICS

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ABBREVIATIONS

(Circ.).....Single-sheet publication, unnumbered.	S. mis. doc.....Senate miscellaneous document.
Cong.....Congress.	Serial no.....Serial number first assigned to
c. t. o.....Cover title only.	bound volumes of Congressional
D. C.....District of Columbia.	documents in Document Check-
ed.....Edition.	list, 2d ed., 1895, and continued
H. ex. doc.....House executive document.	in document indexes of 55th
H. mis. doc.....House miscellaneous document.	and subsequent Congresses.
l.....Leaf, leaves.	sess.....Session.
n. d.....No date.	U. S.....United States.
n. p.....No place.	v.....Volume, volumes.
n. t. p.....No title-page.	fo.....Folio.
p., pp.....Page, pages.	4°.....Quarto.
pt., pts.....Part, parts.	8°.....Octavo.
pl.....Plate, plates.	12°.....Twelvemo.
por.....Portrait.	16°.....Sixteenmo.
rev.....Revised.	24°.....Twenty-fourmo.
S. ex. doc.....Senate executive document.	32°.....Thirty-twomo.

INTRODUCTION

This List of Publications of the Agriculture Department, 1862-1902, with analytical index, is the first of the series of contributions toward a Bibliography of United States public documents, which will deal with the publications of all the Executive Departments and other independent publishing offices of the Government. Separate lists of the publications of each of these Departments and offices will be issued from time to time as completed, and will be supplied to State and Territorial libraries, designated depositories, and other libraries as far as the limited edition will admit. Librarians are invited to point out errors and to make suggestions for consideration prior to the consolidation of the complete work.

I desire to express my sincere thanks for the assistance rendered by Mr. George William Hill, Chief of the Publications Division, and Mr. Robert B. Handy, assistant in charge of the document section, Agriculture Department.

L. C. FERRELL,
Superintendent of Documents.

OCTOBER 13, 1903.

PREFACE

Though next to the youngest of the Executive Departments of the United States Government, and its work having been for years impeded by lack of interest on the part of Congress, the publications of the Agriculture Department rank second to none in number and usefulness.

From a doubtful experiment, with an annual report as its only publication, the Department has developed into a great publishing office, the output of which is eagerly sought by those engaged in agricultural inquiry.

The constant changes in the personnel of the various divisions composing the Department, the growing need and gradual extension of investigations, necessitated in a degree, and at least satisfactorily explain, the otherwise incomprehensible peculiarities and confused methods which characterize the publications of the various bureaus and offices and of the Department as a whole.

FORMER LISTS.

As early as 1867 a general index was made to the annual reports from 1862 to that date (A1.1:867, p. 473), and a still more elaborate index, 1837-1876 (including the agricultural reports made through the Patent Office from 1837-1861), was issued in 1879 (A1.8:14), with a supplement bringing the work down to 1885, printed in 1886 (A1.8:42); but it was not until 1894 that a list of the miscellaneous publications appeared (A1.8:55), and that included only the publications for the five years from 1889 to 1893, being simply a consolidated reprint of the lists which had been a feature of the annual reports of the Secretary for those years.

In 1896 another index to the annual reports, 1837-1893, was printed (A21.3:1), in the preface to which the former attempts to index the reports are characterized as "so unsatisfactory for the purpose for which they were designed as to have fallen into almost complete dis-

use." While it is not doubted that this index was of great service, it still left the problem of the miscellaneous publications unsolved, and it was therefore gratifying when, toward the latter end of the same year, the first list including these publications was issued.

This checklist, including all the publications from 1841 to June 30, 1895 (A17.3:9), and giving a decimal classification for the convenience of those who wished to "keep their files of Government publications apart from their general collection of books," served to emphasize the necessity for a complete catalogue of the publications therein enumerated, and formed a working basis in collecting the set of publications of the Agriculture Department in the library of the office of the Superintendent of Documents, which is now the most complete set of such publications in existence.

In 1898 an author index to all the publications of the Department, 1841-1897, was printed (A21.3:4). Much valuable information was necessarily omitted from this work on account of the limitations of a strictly "author index," which barred some important publications that failed to bear their authors' names.

The latest attempt to supply the much-needed reference list was a "List by titles from 1840 to June, 1901," issued in 1902 (A21.3:6). It was but an elaboration of the checklist of 1896, and while more complete, presented the matter in an equally awkward form for quick reference use.

It is hoped that the present list, combining both methods used by its predecessors, the checklist and the index forms, will prove a satisfactory reference work and lead the searcher quickly to the desired publication.

CLASSIFICATION EXPLAINED.

With the establishment of the office of the Superintendent of Documents, by the provisions of the printing act of January 12, 1895, a new era in the history of public documents was inaugurated. Not only did the office at once undertake the tasks of cataloguing and indexing imposed upon it by law, but in its establishment as a great clearing house for the publications of the Government it became necessary to keep a file of the publications for reference use. In the beginning no definite idea could be formed of the extent of such a collection, and no one dreamed of the magnitude of the work undertaken when it was decided to collect and classify a library strictly governmental in character.

As it was seen to be impossible to arrange such a large and uncertain collection of special publications by either the "decimal" or "expansive" system of library classification in general use, a governmental author arrangement was adopted, corresponding in the main

to the classification applied by Miss Adelaide R. Hasse to the publications of the Agriculture Department in a list issued by the Department in 1895.

It was soon found that this classification, however adequate for a single Department, was not capable of meeting the needs of a great library of Government literature, and a new classification became a necessity.

It was no simple matter to devise a system of classification elastic enough to meet the needs of such a mass of unrelated matter as necessarily forms a library of United States public documents, nor to foresee, though aided by the fruits of the former experience, the many inconsistencies and incongruities against which to guard. Decimal, alphabetical, numerical, chronological, author, subject, and serial methods of classification were experimented with, until at last the present system, a combination of various schemes, was decided upon as the most simple and usable, and its application to the Library has proven satisfactory in every way.

But if the task of applying an acceptable system to the books was hard, that of explaining it concisely and lucidly is certainly more difficult. In giving the following explanation of the method of classification for United States public documents, as it is now used in the Public Documents Library, which contains the largest collection of such publications, the hope is entertained that many of the large libraries may be led to use the scheme, thus insuring uniformity of classification, and making the lists of the various Departments, of which this work is the first, a direct index to the publications on their shelves.

The classification is by governmental authors: First, by Departments or independent publishing offices; second, by bureaus, offices, or divisions of such Departments or independent publishing offices.

Department symbol.

The first letter of the distinctive word in the title of each of the nine Executive Departments is used to designate the Department, and is written as the first term in the "classification number," as follows:

A = Agriculture Department.

C = Commerce and Labor Department.

I = Interior Department.

J = Justice Department.

N = Navy Department.

P = Post-Office Department.

S = State Department.

T = Treasury Department.

W = War Department.

In order that no conflict should arise between the Executive Departments notation and that of any of the independent publishing offices, two letters are used in all other notations, as follows:

CS = Civil Service Commission.

DC = District of Columbia.

FC = Fish Commission.

FS = Freedman's Savings and Trust Company.

GN = Geographic Names Board.

GP = Government Printing Office.

IC = Interstate Commerce Commission.

Ju = Judiciary (United States courts, etc.).

La = Labor Department.

LC = Library of Congress.

NA = National Academy of Sciences.

NH = National Home for Disabled Volunteer Soldiers.

Pr = President of United States.

SI = Smithsonian Institution.

These two lists give the complete letter symbols, and the arrangement on the shelves is strictly alphabetical taking them as a whole. Of course, the publications of the Fish Commission and the Labor Department have since the 1st day of July, 1903, been classified among the publications of the Commerce and Labor Department, of which they are now bureaus, but their publications as separate publishing offices are left under the old classification.

Bureau, office, or division symbol.

A symbol having been supplied for the Departments and independent publishing offices, one for each of the bureaus, offices, and divisions of such Departments or publishing offices was next considered.

The figure 1 following the Department or independent publishing office symbol was fixed upon to represent the Secretary of the Department or the chief executive officer of any of the independent publishing offices, and is always used for such, thus—

A1 = Agriculture Department, Secretary's office.

W1 = War Department, Secretary's office.

GP1 = Government Printing Office, Public Printer's office.

Beginning with figure 2, the numbers are applied in numerical order to the various publishing bureaus, offices, and divisions, these having been arranged alphabetically when the classification was applied; new offices to be added at the end of the list of a Department and assigned the next number.

This of course does not provide for an alphabetical arrangement of the bureaus, offices, etc., in the future, but does furnish a distinctive symbol for each without limit.

A point is placed after this second symbol to separate the Department and bureau notation from the rest of the "classification number."

Examples:

- A1. = Agriculture Department, Secretary's Office.
- A2. = Agriculture Department, Accounts and Disbursements Division.
- A3. = Agriculture Department, Agrostology Division.
- A4. = Agriculture Department, Animal Industry Bureau.
- T1. = Treasury Department, Secretary's Office.
- T2. = Treasury Department, Appointments Division.
- T3. = Treasury Department, Auditor for Treasury Department (First Auditor.)
- T4. = Treasury Department, Auditor for War Department (Second Auditor.)

Series symbol.

Next to be considered was a symbol for the numerous series of publications which emanate from these various publishing offices. As substantially every Government publishing office issues an annual report, this annual report is considered to be the most important series in the publications of every office, and figure 1 was therefore designated as the symbol for "annual reports," and written as the third term in a "classification number," following the point.

In like manner an arbitrary symbol, figure 2, is assigned to the numerous publications of a miscellaneous character which are not numbered or volumned in any series. Such sporadic issues have been called "general publications," and their symbol, figure 2, is written as the third term in a "classification number".

A majority of the publishing offices issue their publications numbered in series called "bulletins" or "circulars" or both; the terms being applied without any regularity as to size or character of the works thus numbered. The figure 3 for "bulletins" and the figure 4 for "circulars" have been permanently assigned to these classes, to be written as the third term in a "classification number."

We now have figures 1, 2, 3, and 4, when written after the point as the third term in a "classification number," permanently assigned as symbols, as follows:

- .1 = Annual reports.
- .2 = General publications.
- .3 = Bulletins.
- .4 = Circulars.

From this point the various series are arranged alphabetically as far as possible, assigned the numbers following indefinitely, and all

new series as they come to hand are given the next number to be applied to a series, under the office from which they emanate.

Should an office fail to issue any of the four classes of publications here described, the numbers are left blank, and the numbering of such series as they may issue begins with figure 5.

Following the series symbol a colon is used to separate the series figure or figures from the characters used as individual "book numbers" to follow.

Examples:

A1. = Agriculture Department, Secretary's Office.

A1.1: = Agriculture Department, Secretary's Office, annual reports.

A1.2: = Agriculture Department, Secretary's Office, general publications.

A1.3: = Agriculture Department, Secretary's Office, bulletins.

A1.4: = Agriculture Department, Secretary's Office, circulars.

A1.5: = Agriculture Department, Secretary's Office, miscellaneous circulars.

A1.6: = Agriculture Department, Secretary's Office, special reports.

N6. = Navy Department, Hydrographic Office.

N6.1: = Navy Department, Hydrographic Office, annual reports.

N6.2: = Navy Department, Hydrographic Office, general publications.

N6.3: = Navy Department, Hydrographic Office, bulletins.

N6.4: = Navy Department, Hydrographic Office, circulars.

N6.5: = Navy Department, Hydrographic Office, catalogues and lists.

N6.6: = Navy Department, Hydrographic Office, corrections and additions.

N6.7: = Navy Department, Hydrographic Office [practical papers].

Book number.

An individual "book number" is all that is now needed to complete the classification. The symbols for this purpose are written after the colon as the fourth term in the "classification number." In the case of annual or periodical publications the date is used as the book number; for a volumed series the volume number is used, and in a numbered series the number. The works classified as "general publications" being without any of these distinctive features, it is found advisable to arrange them in alphabetical order under the most significant words of their titles, or under their subjects, and the Cutter Author Table symbols for such words are used as "book numbers."

Examples:

- A1.1:901 = Agriculture Dept., Secy's Office, annual report, 1901.
A1.1:902 = Same, 1902.
A1.2: = Agriculture Dept., Secy's Office, general publications.
A1.2:An4 = Angora. Notice of receipt of letter from Minister Terrell, relating to agriculture in Angora. November 1, 1893. (Circ.)
A1.2:L48 = Leave of absence not allowed to employees outside of Washington. October 21, 1896. (Circ.)
N6.8: = Navy Department, Hydrographic Office, publications (numbered).
N6.8:3 = [No. 3.] List of reported dangers to navigation in Pacific Ocean, whose positions are doubtful, or not found on charts in general use. 1866. 191 pp.
N6.8:40 = No. 40. Steam lanes across Atlantic; [by M. F. Maury.] 1872. 19 pp. 3 pl.
T14.5: = Treasury Department, Second Comptroller, decisions, digest of.
T14.5:1 = Volume 1. Compiled by George Chipman. 1852.
T14.5:2 = Volume 2, 1869-1884; compiled by R. J. Mitchell. 1885. 433 pp.

Superior letters and figures.

Two other very useful features of the classification need some explanation, namely, the use of the superior letter a (^a), and the superior figures (¹⁻⁹).

The superior letter always designates excerpts from the publication bearing the same notation without the (^a). The name adopted for these excerpts is "separates," and they are always designated by the superior (^a). These "separates" are arranged in classes by themselves, immediately following the series from which they are taken. In cases where the separates are from an annual report series it has often been found necessary to make two classes. The personal report of the chief, which usually appears in pamphlet form without the accompanying documents, is arranged and book-numbered by dates. The other class, scientific reports accompanying the report of the chief, is arranged alphabetically on the same plan as the "general publications."

Examples:

- A1.1:901 = Agriculture Department, Secretary's Office, annual report, 1901.
A1.1^a:901 = Agriculture Department, Secretary's Office, annual report, 1901 (separate).

Examples—Continued.

N14.5:885 = Navy Department, Naval Observatory, Astronomical and Meteorological Observations, 1885.

N14.5^a:As8 = Same (separate). Astrophotographic Congress, International, etc.; by A. G. Winterhalter. 1889. (Reprint of Appendix 1, Astronomical and Meteorological Observations, 1885.)

The superior figures are used to differentiate between two publications which may of necessity be assigned the same symbol in the alphabetical classification, and also to distinguish between the various editions of the same serial or numbered publication.

Examples:

A1.2: = Agriculture Dept., Secy's Office, general publications.

A1.2:Ag8¹ = Agricultural colleges. List of delegates and visitors to tenth annual convention of Association of American Agricultural Colleges and Experiment Stations, 1896. n. t. p. 3 pp.

A1.2:Ag8² = Agriculture Department. [Letter as to work and needs of Department of Agriculture; by William G. Le Duc.] February 27, 1880. n. t. p. 15 pp.

I16.5: = Interior Department, Education Bureau, Circulars of Information.

I16.5:875¹ = 1875, No. 1. Proceedings of Department of Superintendence of National Educational Association, Washington, D. C., January 27 and 28, 1875. 1875. 114 pp. 1 pl.

I16.5:875² = 1875, No. 2. Education in Japan; [by William E. Griffis and David Murray.] 1875. 64 pp.

N6.8: = Navy Department, Hydrographic Office, publications (numbered).

N6.8:90¹ = No. 90. Development of great circle sailing; by G. W. Littlehales. 1889. 53 pp. 5 pl. 1 map.

N6.8:90² = Same, 2d ed. 1889. 63 pp. 7 pl. 2 maps.

It will be seen that the system here presented is expansive enough to cover any number of departments, offices, series, or books, and that, too, in as concise a form as possible. A long or intricate classification number is not only hard to apply to a book, but it is difficult to remember in consulting the shelves, and it should therefore be as short and simple as possible. Certainly the numbers or symbols in the method herein described express a great deal in a limited space, and it is hard to conceive of a shorter method of expressing such a phrase as "Interior Department, Geological and Geographical Survey

of the Territories (Hayden), Final reports, Volume 9," than by the accurate notation I18.5:9, which, when analyzed, exhibits a clear statement of the entire phrase: (I) Interior Department; (18) Geological and Geographical Survey of the Territories (Hayden); (.5) Final reports; (:9) Volume 9:=I18.5:9.

THE TABLES.

The Tables in this work are elaborated from the card shelf list used in this Library. All the necessary bibliographical information is appended to the entry of a publication or series, and no time or effort has been spared in the attempt to make these Tables present an accurate and complete list of all the publications of the Department from 1862, including all 1902 imprints.

When a publication was also issued as a Congressional document the Congressional reference is inserted after the entry for such publication in the Tables. In a few instances a single paper in a volume has been so issued, and in those cases it has been necessary to insert the Congressional reference in the Index.

Those publications which emanated from the Department, but which were issued only as Congressional documents, are listed chronologically in the Appendix to this work.

The titles in the Tables are exact copies of the title-pages of the publications with the omission of unnecessary articles. In case of "general publications" or other series which are classified alphabetically the subject words are introduced as headings and the title follows as it appears on the publication.

In counting the maps, plates, charts, etc., in a volume the total number has been stated as "plates," except in cases where the character of the illustration was plainly determined by numbering.

When the word circular "(circ.," appears at the end of an entry it indicates a one-page publication of uncertain size.

THE INDEX.

The Index, which forms the most important as well as the larger part of this work, has been carefully compiled with a view to quick reference to any special author, subject, or title. In dealing with a collection of publications differing so widely in their subject-matter, and for the most part of a scientific character, it has been found difficult to determine the best form of entry in many instances for papers with meaningless or strictly technical headings, especially when a reading of the paper by one unacquainted with the subject treated has proved equally unsatisfactory in suggesting a suitable title. There are doubtless omissions on account of these nondescript titles, which, to save time, have been used for the Index entries. Only where titles

were found perfectly meaningless, as "A few facts from Florida" or "A popular experiment," has the article been read, the reason for which is clearly indicated by the statement that a complete collection of the publications of the Department includes about 3,500 books, pamphlets, and circulars of from 1 to 1,500 pages each, some of which contain fifty or more distinct papers.

The Index entries to the *volumes* listed are in many cases greatly abbreviated, as the full title and all information concerning the publication can be obtained from the entry in the Tables, but in the case of analytical references the full title as given in the document has been entered, in order to convey as much information as possible.

In analyzing the annual reports of the chiefs of the various bureaus or offices, only papers distinct from the main report, or which, if included, have an individual author, are brought out in the Index, the various subheads in the reports not being noted.

When a date does not appear in an entry in the Index it indicates that there is more than one edition or print of the article indexed, except in cases of undated publications, where a date could not be given, or of annual report analyticals, where the date appears as the book number.

CONCLUSION.

The greatest drawback to systematic classification and ready reference was the vast number of miscellaneous unnumbered publications. An endeavor has been made in this list to classify in distinct series, as far as possible, this unwieldy mass, and to that end numbers have been assigned and series formed and named, or they were numbered in either the series "bulletins" or "circulars" when these series were not already filled.

There is no well-defined definition for either "bulletin" or "circular" as applied to public documents, as witnessed by the fact that the series of numbered "circulars" in the Surgeon-General's office, War Department, contains both large quarto volumes and one-page letters, while the circulars of other offices are single sheets of many varying sizes, and of some of the scientific bureaus of the Agriculture Department are small pamphlets. In assigning numbers in this list, however, the series of "bulletins" have been filled with the more important pamphlet publications, and the series "circulars," made up of the ephemeral or smaller works, generally of one-page letters.

The unnecessary multiplication of numbers on the title pages, especially of the publications of the Agriculture Department, is a subject which does not lend itself to easy explanation, if indeed there is any reason in it, and no account, therefore, has been taken in this list of the various "whole numbers" of the divisions, nor the "serial num-

bers" of certain classes of literature, which form a confused jumble of unintelligible characters on the title-pages of so many of the Department's pamphlets.

If the publications of each publishing office could be confined within the two series "bulletins" and "circulars," for which provision is made under each office in the classification; or if, in case of continued issues, they could be given a series title and series number of their own, such series title and series number to appear on the title-page (not on the cover or in the back title) of each publication, much of the confusion and oft-complained-of "multiplication of numbering" would be done away with.

Another great boon to librarians would be the adoption by the Department of a "whole number," to be assigned to all publications of the Department, no-matter by which bureau issued, serially in the order of issue, printed in small type in an inconspicuous place on the title-page, or at the heading of an article, and applied without reservation to everything issued which the Department considers a "publication." This "whole number," however, not to supersede the series numbers of the publishing bureaus, but to take the place of all other title-page numbers.

In compiling lists of the publications of the Departments, everything issued by a Department, except circular letters and cards and notices of a purely office character, should be listed; and yet it is found in many instances almost impossible to determine what the Department considers a "publication," many numbered issues being of but a temporary character, while an unnumbered card or circular may be of importance, and if discarded would be regarded as a serious omission.

"Whole numbers" are now used by many of the publishing offices to designate a certain class of literature, but to be of practical value the number must be applied by the Department, and should appear on everything issued which it considers a "publication." Librarians could then easily keep track of the publications and be sure when they had them all, whereas now no one knows what constitutes a complete set of the publications of any of the great Departments.

A carefully assorted and beautifully bound collection of many of the publications of the Department, which proved of great value in compiling this list, is safely entombed in a vault in the grounds of the Department; its library has a fair representation of the publications; while most of the scientific bureaus retain files of at least the last editions of their works; but in no one place, nor in all combined, does the Department possess anything like a complete file of its valuable literature. This, however, is not surprising, for in all the well-

equipped libraries of the various Departments it is most discouraging to note the dearth of publications of the Departments themselves, a fact which should certainly be remedied.

Every bureau and office in the Department has been visited and private files searched in the endeavor to make this list complete, and it is hoped it will prove a satisfactory substitute for a catalogue of the Department's publications.

WILLIAM LEANDER POST.

PUBLIC DOCUMENTS LIBRARY,
October 12, 1903.

TABLES

For a full explanation of the classification used in these Tables, see pp. 8-15, without a careful perusal of which the best results can not be obtained in using this list.

A. AGRICULTURE DEPARTMENT

[By an appropriation for the collection of agricultural statistics, March 3, 1839, an agricultural section was established in the Patent Office. The section continued until May 15, 1862, when it was made a separate Department, though it was not until February 9, 1889, that it was raised to the dignity of a Cabinet office.]

Classifica-
tion no.

A1. SECRETARY

A1.1: Annual reports

[The annual report on agriculture began in 1837 with a two-page statement in the report of Henry L. Ellsworth, Commissioner of Patents. From that date to 1861 it formed a part of the report of the Commissioner of Patents, making a separate volume after 1849.

In 1862 the Department of Agriculture was established and its annual report was uniformly issued up to 1893. Beginning with the report for 1894, in accordance with paragraph 2, section 73, of the printing act of January 12, 1895, the report has been prepared in two volumes, one containing the Secretary's report and the purely executive reports of the several chiefs of bureaus, divisions, and offices; the other, known as the Yearbook (A1.10:), embracing the Secretary's report and a collection of special articles on agricultural science.

The title of the head of the Department was Commissioner of Agriculture until 1889, when he became Secretary of Agriculture and a member of the Cabinet.

References to the various reports and scientific papers contained in this series of annual reports will be found under their proper headings in the Index to this work.

For further information see notes under A1.1a:]

COMMISSIONER OF AGRICULTURE

- 862 1862 (Newton), 632 pp., 52 pl.
Same, 37th Cong., 3d sess., H. ex. doc. 78; serial no. 1168.
- 863 1863 (Newton), 698 pp., 48 pl.
Same, 38th Cong., 1st sess. In H. ex. doc. v. 5; serial no. 1184.
- 864 1864 (Newton), 676 pp., 48 pl.
Same, 38th Cong., 2d sess., H. ex. doc. 68; serial no. 1228.
- 865 1865 (Newton), iv+608 pp., 32 pl.
Same, 39th Cong., 1st sess., H. ex. doc. 136; serial no. 1266.
- 866 1866 (Newton), 656 pp., 36 pl.
Same, 39th Cong., 2d sess., H. ex. doc. 107; serial no. 1297.
- 867 1867 (Stokes; Capron), xix+512 pp., 37 pl.
Same, 40th Cong., 2d sess. In H. ex. doc. v. 21; serial no. 1347.
- 868* 1868 (Capron), [4]+671 pp., 19 pl.
Same, 40th Cong., 3d sess., H. ex. doc. unnumbered; serial no. 1383.
- 869 1869 (Capron), 702 pp., 38 pl.
Same, 41st Cong., 2d sess., H. ex. doc. unnumbered; serial no. 1428.
- 870 1870 (Capron), 688 pp., 33 pl.
Same, 41st Cong., 3d sess., H. ex. doc. unnumbered; serial no. 1461.
- 871 1871 (Watts), [4]+524 pp., 29 pl.
Same, 42d Cong., 2d sess., H. ex. doc. [327]; serial no. 1522.
Same, without accompanying documents. 42d Cong., 2d sess., H. ex. doc. 1, p. 145; serial no. 1502.
- 872 1872 (Watts), 524 pp., 12 pl. (Not issued in Congressional set.)
- 873 1873 (Watts), 496 pp., 1 pl. [Erroneously assigned serial no. 1616, but never issued in Congressional set.]
- 874 1874 (Watts), 463 pp., 9 pl.
Same, 43d Cong., 2d sess., H. ex. doc. unnumbered; serial no. 1652.
- 875 1875 (Watts), 536 pp., 61 pl. (Not issued in Congressional set.)

Tables

Classification
no.

A1. SECRETARY—(Continued)

A1.1: Annual reports—Continued

- 876 1876 (Watts), 447 pp., 15 pl. (Not issued in Congressional set.)
 877 1877 (Le Duc), 592+[1] pp., 54 pl. (Not issued in Congressional set.)
See for supplemental report, 1877, A1.2:An7¹
 878 1878 (Le Duc), 608+[1] pp., 59 pl. (Not issued in Congressional set.)
 879 1879 (Le Duc), 621 pp., 67 pl. (Not issued in Congressional set.)
 880 1880 (Le Duc), 672 pp., 136 pl.
 Same, preliminary report, 46th Cong., 3d sess., S. ex. doc. 27; serial
 no. 1941.
 881-2 1881 and 1882 (Loring), 704 pp., 85 pl.
 Same, 47th Cong., 1st sess., H. ex. doc. [228]; serial no. 2034.
 883 1883 (Loring), 496 pp., 54 pl.
 Same, 47th Cong., 2d sess., H. ex. doc. 109; serial no. 2114.
 884 1884 (Loring), 581 pp., 71 pl.
 Same, 48th Cong., 1st sess., H. ex. doc. 178; serial no. 2212.
 885 1885 (Colman), 640 pp., 45 pl.
 Same, 48th Cong., 2d sess., H. ex. doc. 269; serial no. 2309.
 886 1886 (Colman), 719 pp., 72 pl.
 Same, 49th Cong., 1st sess., H. ex. doc. 378; serial no. 2405.
 887 1887 (Colman), 724 pp., 70 pl., 1 map.
 Same, 49th Cong., 2d sess., H. ex. doc. 201; serial no. 2487.
 888 1888 (Colman), 708 pp., 69 pl., 1 map.
 Same, 50th Cong., 1st sess., H. ex. doc. 470; serial no. 2564.
 SECRETARY OF AGRICULTURE
 889 1889 (Rusk), 560 pp., 44 pl.
 Same, 51st Cong., 1st sess., H. ex. doc. 1, pt. 7; serial no. 2732.
 890 1890 (Rusk), 612 pp., 50 pl.
 Same, 51st Cong., 2d sess., H. ex. doc. 1, pt. 6; serial no. 2847.
 891 1891 (Rusk), 653 pp., 59 pl., 1 map.
 Same, 52d Cong., 1st sess., H. ex. doc. 1, pt. 6; serial no. 2940.
 892 1892 (Rusk), 656 pp., 71 pl.
 Same, 52d Cong., 2d sess., H. ex. doc. 1, pt. 6; serial no. 3095.
 893 1893 (Morton), 608 pp., 29 pl.
 Same, 53d Cong., 2d sess., H. ex. doc. 1, pt. 6; serial no. 3216.
 894 1894 (Morton), 120 pp.
 Same, 53d Cong., 3d sess., H. ex. doc. 1, pt. 6; serial no. 3310.
 895 1895 (Morton), 266 pp., 1 chart.
 Same, 54th Cong., 1st sess., H. doc. 6; serial no. 3390.
 896 1896 (Morton), li+269 pp.
 Same, 54th Cong., 2d sess., H. doc. 6; serial no. 3496.
 897 1897 (Wilson), liv+226 pp.
 Same, 55th Cong., 2d sess., H. doc. 6; serial no. 3651.
 898 1898 (Wilson), lxiii+212 pp.
 Same, 55th Cong., 3d sess., H. doc. 6; serial no. 3768.
 899 1899 (Wilson), lxx+266 pp.
 Same, 56th Cong., 1st sess., H. doc. 6; serial no. 3929.
 900 1900 (Wilson), lxxviii+297 pp.
 Same, 56th Cong., 2d sess., H. doc. 6; serial no. 4116.
 901 1901 (Wilson), cxv+344 pp.
 Same, 57th Cong., 1st sess., H. doc. 6; serial no. 4301.
 902 1902 (Wilson), cxxiv+402 pp.
 Same, 57th Cong., 2d sess., H. doc. 6; serial no. 4466.
 See also, for another print of personal report of Secretary, 1902,
 A1.8:73

A1.1a: Annual reports (separates; Secretary's report)

[The personal report of the Secretary is issued separately in pamphlet form in advance of the main volume; is also the first paper in the Yearbook (A1.10:); and sometimes appears as a broadside, or as a pamphlet printed on one side of the page only, for the use of the press.]

A1.1a: Annual reports (separates; miscellaneous)

[Only a small number of the scientific papers accompanying the report of the Secretary are known to have been printed separately. References to *all* the scientific papers will be found under their proper headings in the index to this work.]

A.1:2 General publications

- Ag8¹ Agricultural Colleges. List of delegates and visitors to 10th annual convention of Association of American Agricultural Colleges and Experiment Stations. 1896. n. t. p. 3 pp.
- Ag8² Agriculture Department. [Letter as to work and needs of Department of Agriculture; by William G. Le Duc.] Feb. 27, 1880. n. t. p. 15 pp.
- Ag8³ Agriculture Department. Notice of its various functions. 1893. (Circ.)
- An4 Angora. Notice of receipt of letter from Minister Terrell relating to Agriculture in Angora. Nov. 1, 1893. (Circ.)
- An5¹ Animal Industry Bureau. Proposed bill submitted for consideration and revision, offering amendments to act of May 29, 1884, establishing Bureau of Animal Industry, with view of more effectual control of contagious diseases. n. t. p. n. d. 12 pp. 4°
- An5² Animal Industry Bureau. [Letter of J. M. Rusk relative to establishment of Bureau of Animal Industry, etc.] Apr. 12, 1890. 8 pp.
- An7¹ Annual report of Commissioner of Agriculture (supplemental) to President. Nov., 1877. 19 pp.
- An7² Same, also transmitting special Department reports no. 1 [A1.6:1] and no. 3 [A1.6:3] 19+32+26 pp.
- Ap4¹ Apparatus for sale. Jan. 24, 1896. (Circ.)
- Ap4² Appalachian region. Message from President of U. S., transmitting report of Secretary of Agriculture [James Wilson, in collaboration with Department of the Interior], in relation to forests, rivers, and mountains of southern Appalachian region. 1902. 210 pp. 78 [80] pl. large 8°
- Ap6¹ Same, 57th Cong., 1st sess., S. doc. 84; serial no. 4229.
- Ap6² Appointment clerk, report of. Dec. 1, 1901. n. t. p. 5 pp.
- B39¹ Same; revised. Dec. 1, 1901. n. t. p. 7 pp.
- B39¹ Beet sugar. Special report on beet-sugar industry in U. S. [in 1897]. 1898. 240 pp. 2 maps.
- B39² Same, 55th Cong., 2d sess., H. doc. 396; serial no. 3691.
- B39² Same, separate, pp. iv,+161-233; Beet-sugar industry in U. S. [in 1897], report of special agent Charles F. Saylor.
- B39³ Same, separate, pp. 135-140, 160; Analyses of sugar beets grown in various States; by H. W. Wiley.
- B39⁴ Beet sugar. Progress of beet-sugar industry in U. S. in 1898. 1899. 162 pp.
- B39⁵ Same, 55th Cong., 3d sess., H. doc. 267; serial no. 3812.
- B39⁵ Beet sugar. Progress of beet-sugar industry in U. S. in 1899; with a supplementary report on cane-sugar industry of Hawaiian Islands. 1900. 200 pp. 4 maps.
- See also A1.8:69.
- C29¹ Cattle. Reports on diseases of cattle in U. S., made to Commissioner of Agriculture, with accompanying documents. 1869. 190 pp. 1 pl.
- C29² Cattle. Report of Commissioner of Agriculture on diseases of cattle in U. S. 1871. [4]+205 pp. 14 pl. 4°
- C29³ Cattle. Correspondence with S. W. Allerton concerning exportation of Canadian cattle from port of Boston, Mass. Dec. 28, 1896. n. t. p. 11 pp.
- C29⁴ Same. (Broadside.)
- C29⁵ Cattle. Results of examinations of fluids of diseased cattle, with reference to presence of cryptogamic growth. 1871. 12 pp. 4° *
- C29⁶ Cattle. Contagious pleuro-pneumonia or lung plague of cattle; where and to what extent it exists. 1870. 17 pp. *
- C49¹ Civil service. Letter relative to classified service. Dec. 16, 1895. (Circ.)
- C49² Same. Dec. 1, 1896. (Circ.)
- C49³ Civil service. Civil service in [Agriculture] Department. Feb. 29, 1896. n. t. p. 2 pp.
- C49⁴ Same. May 14, 1896. n. t. p. 2 pp.

* No copy found.

A1.2: General publications—Continued

- C71 Colman, N. J. Report in response to inquiries of select committee of Senate appointed to inquire into and examine the methods of business of the Executive Departments. 1888. n. t. p. 106 pp.
- C76 Convention. Proceedings of National Agricultural Convention held at Washington, Feb. 15-17, 1872. 1872. 84 pp.
Same, 42d Cong., 2d sess., S. mis. doc. 164; serial no. 1526.
- D14 Dairy. Export of dairy products of U. S., 1821-1890. [1890.] (Circ.) *
- Ex6¹ Expenditures. [Relative to restriction of expenditures in Department.] Apr. 6, 1896. (Circ.)
- Ex6² Experiments. Protest against proposed legislation restricting experiments of Department. [With copy of Senate bill 1063.] May 25, 1897. n. t. p. 8+2 pp.
- F76 Flax and Hemp Commission. Report of Flax and Hemp Commission [J. K. Moorhead, Jno. A. Warder, and Chas. Jackson], appointed under act of Congress of Feb. 25, 1863. n. p. [1865.] 96 pp. (Cover title only.)
Same, 38th Cong., 2d sess., S. ex. doc. 35; serial no. 1209.
- H78 Horses. Market for American horses in foreign countries. 1898. 94 pp. 6 pl.
- H89 Hungarian brome grass. Notice of circular [no. 1, Botany Division] on Hungarian brome grass. June, 1894. (Circ.) *
- In7 Inspectors. General orders to inspectors [relative to humane treatment of animals]. May 13, 1896. (Circ.)
- L48 Leave of absence not allowed to employees outside of Washington. Oct. 21, 1896. (Circ.)
- N84 Notice of receipt of communications on various subjects. July 7, 1893. (Circ.) *
- P53 Philadelphia, Pa. Report of participation of Department of Agriculture in International Exhibition of 1876; by William Saunders. 1884. *
- P69 Plants. Catalogue of U. S. plants in Department of Agriculture. [186-.] 27 pp. (Cover title only.)
- P94 Promotions. Regulations governing promotions, etc., in Department of Agriculture. Dec. 1, 1896. n. t. p. 3 pp.
- P96¹ Publications. General order [relative to] distribution of publications. Jan. 10, 1896. (Circ.)
- P96² Same, Farmers' bulletins. Oct. 15, 1895. 4 pp.
- P96³ Same, Farmers' bulletins. Feb. 25, 1896. 4 pp.
- P96⁴ Same, Farmers' bulletins. May 16, 1896. 4 pp.
- P96⁵ Same, Farmers' bulletins. July 1, 1896. 4 pp.
- P96⁶ Same, Farmers' bulletins. Mar. 15, 1897. 4 pp. 4°
- P96⁷ Same, Farmers' bulletins. June 30, 1897. 4 pp. 4°
- P96⁸ Publications. Instructions relating to purchase of publications. Jan. 22, 1896. (Circ.)
- R13 Railroad and transportation companies. Circular to railroad and transportation companies relative to prevention of exportation of diseased cattle. Feb. 24, 1890. (Circ.) *
- R89 Rusk, Jeremiah M. Annual reports, with selected correspondence, relating to export trade of U. S. in live stock and meat products, of Jeremiah M. Rusk, 1889-92. 1893. 40+52+59+64+33 pp.
See also for correspondence A1.8:53.
- Sci 1¹ Scientific work in Department. Recommendation for appointment of director in chief of scientific work. Feb. 15, 1896. n. t. p. 3 pp.
- Sci 1² Scientific work in Department. Opinions of scientific men and others with regard to proposition for a director in chief of scientific bureaus. 1st ed. [1896.] n. t. p. 3 pp.
- Sci 1³ Same. 2d ed. [1896.] n. t. p. 8 pp.
- Sci 1⁴ Same. 3d ed. [1896.] n. t. p. 16 pp.
- Sci 1⁵ Same, additional opinions. [1896.] n. t. p. 4 pp.
- Sci 1⁶ Same, additional resolutions. [1896.] n. t. p. 4 pp.
- Sci 1⁷ Same, with report of Senate Committee on Agriculture and Forestry. [1896.] n. t. p. 12 pp.

*No copy found.

A1. SECRETARY—Continued

A1.2: General publications—Continued

- Se3¹ Seed. Relative to status and discontinuance of distribution of seed. July 25, 1895. (Circ.)
- Se3² Seed. Opinions of the press concerning free-seed distribution. n. d. n. t. p. 12 pp.
- Se3³ Seed. Statement of secretary at joint meeting of Senate and House Committees of Agriculture [relative to] free-seed distribution. Jan. 15, 1896. n. t. p. 8 pp.
- Se3⁴ Seed. Proposals for furnishing seed. Mar. 18, 1896. (Slip.)
- Se3⁵ Seed. Statement in regard to award of seed contract. Apr. 16, 1896. n. t. p. 8 pp.
- Se3⁶ Seed. Prohibiting use of Government seed envelopes by unauthorized parties. May 2, 1896. (Circ.)
- Se3⁷ Seed. Cost of seed distribution. Jan. 30, 1897. n. t. p. 3 pp.
- Se3⁸ Seed. Brief instructions in regard to sowing seeds and raising young plants of forest trees. n. d. 5 pp.
- Sh3 Sheep husbandry in U. S. Origin and growth of sheep husbandry in U. S., with some remarks on angora fleece. 1880. [1]+133 pp. 4 pl.
- Same, 45th Cong., 3d sess., S. ex. doc. 25; serial no. 1828.
- So1 Societies. List of agricultural and horticultural societies in U. S. 1869. *
- Sp3 Specifications of workmanship and materials required in erection and completion of new building for accommodation of Department of Agriculture in Washington, D. C.; prepared by Cluss & Kammerhueber. 1867. 26+2 pp.
- Su3 Sugarhouse machinery for sale July 1, 1895. n. t. p. 8 pp. 4°
- T69¹ Traveling expenses. Allowances for traveling expenses. Oct. 1, 1889. 8 pp.
- T69² Same. July 1, 1893. 11 pp.
- V67 Vienna. Notice relating to International Exhibition, Vienna, 1894. Nov. 27, 1893. (Circ.)
- W69 Wilson, James. Speech by James Wilson, Secretary of Agriculture, delivered July 7, 1902, at School of Agriculture, Columbus, Ohio. July 17, 1902. n. t. p. 6 pp.
- W88 Wools. Report upon examination of wools and other animal fibers; by William McMurtrie. 1886. 613 pp. 72 pl. 4°
- Same, 49th Cong., 1st sess., H. mis. doc. 392. Serial no. 2426.

A1.3: Bulletins

None issued.

A1.4: Circulars

- 1 [No. 1.] Statement in regard to award of seed contract. Apr. 16, 1896. n. t. p. 8 pp.
- 2 [No. 2.] Vivisection in District of Columbia. May 16, 1896. n. t. p. 8 pp.
- 3 No. 3. Address on progress of Southern agriculture; by Charles W. Dabney. June 1, 1896. n. t. p. 12 pp.
- 4 No. 4. [Letter of protest and appeal to persons interested in animal industry, accompanying a draft of Senate bill 1552, 54th Cong., 1st sess., entitled "An act for the further prevention of cruelty to animals in District of Columbia."] June 5, 1896. n. t. p. 3 pp.
- 5 No. 5. Civil service in Department of Agriculture. June 20, 1896. n. t. p. 4 pp.
- 6 No. 6. Number, status, and compensation of employees in Department of Agriculture, July 1, 1897. Jan. 20, 1898. n. t. p. 4 pp.
- 7 No. 7. Possible influence of importation of Hawaiian sugar on beet-sugar production in United States. Jan. 17, 1898. n. t. p. 4 pp.
- 8¹ No. 8. [Cooperative work in grass and forage plant investigations with State experiment stations; by T. A. Williams.] Nov. 20, 1900. n. t. p. 14 pp.
- 8² Same, revised. [1901.] n. t. p. 16 pp.
- 9 No. 9. [Collection and distribution of grass seed: field work; by C. L. Shear.] Dec. 10, 1900. n. t. p. 11 pp.

* No copy found.

Tables

Classification no.

A1. SECRETARY—Continued

A1.5: Miscellaneous circulars

- 1 No. 1. Castor-oil plant. n. d. n. t. p. 4 pp.
- 2 No. 2. Mississippi River flood. Apr. 12, 1897. n. t. p. 6 pp.
- 3 No. 3. Mississippi River flood, 2d report. Apr. 22, 1897. n. t. p. 4 pp.

A1.6: Special reports

- 1 No. 1. Condition and prospects of cane-sugar industry in U. S. 1877. 41 pp.
See also A1.2:An7²
- No. 2. Condition of crops, etc. 1877. (In A27.9:15.)
- 3 No. 3. Thea viridis or Chinese tea-plant, and practicability of its culture and manufacture in U. S. Also some remarks on cultivation of Coffee plant. 1877. 26 pp.
See also A1.2:An7²
- 4 No. 4. Cultivation of fig, and method of preparing the fruit for commerce; also report on importance of cultivation of date palm. 1878. 17 pp.
- No. 5. Condition of crops, June 1, 1878. (In A27.9:16.)
- No. 6. Condition of crops, July 1, 1878. (In A27.9:16.)
- No. 7. Condition of crops, Aug. 1, 1878. (In A27.9:16.)
- No. 8. Condition of crops, Sept. 1, 1878. (In A27.9:16.)
- No. 9. Condition of crops, Dec. 1, 1878. (In A27.9:16.)
- No. 10. Condition of crops, and live stock, Jan., 1879. (In A27.9:17.)
- 11¹ No. 11. The silk-worm; being brief manual of instruction for production of silk. [By C. V. Riley.] 1879. 31 pp.
- 11² Same; by C. V. Riley, 2d edition. 1882. 37 pp.
- 11³ Same, 3d edition.*
- 11⁴ Same, 4th edition. 1883. 37 pp.
- 11⁵ Same, 5th edition. 1884. 37 pp.
- 12 No. 12. Investigation of diseases of swine, and infectious and contagious diseases incident to other classes of domesticated animals. 1879. 292 pp. 17 pl.
- No. 13. Condition of crops and live stock, Apr., 1879. (In A27.9:17.)
- No. 14. Condition of crops and live stock, June, 1879. (In A27.9:17.)
- No. 15. Condition of crops, July 1, 1879. (In A27.9:17.)
- No. 16. Condition of crops, Aug. 1, 1879. (In A27.9:17.)
- No. 17. Condition of crops, Sept. 1, 1879. (In A27.9:17.)
- 18 No. 18. Tea-culture as a probable American industry; by William Saunders. Read before New York Horticultural Society, at its meeting, Oct. 7, 1879. 1879. 21 pp.
- No. 19. Condition of crops, Nov. 1, 1879. (In A27.9:17.)
- No. 20. Condition of crops, Dec. 1, 1879. (In A27.9:17.)
- No. 21. Number and prices of farm animals, Jan. 1, 1880. (In A27.9:18.)
- 22 No. 22. Contagious diseases of domesticated animals; continuation of investigation by Department of Agriculture. 1880. 268 pp. 15 pl. 1 map.
- No. 23. Condition of crops, Apr., 1880. (In A27.9:18.)
- No. 24. Condition of crops, June and July, 1880. (In A27.9:18.)
- No. 25. Condition of crops, Aug., 1880. (In A27.9:18.)
- 26 No. 26. Culture of sumac in Sicily, and its preparation for market in Europe and U. S.; by William McMurtrie. 1880. 32 pp. 8 pl.
- No. 27. Condition of crops, Sept., 1880. (In A27.9:18.)
- 28 No. 28. Culture of sugar beet and manufacture of sugar therefrom in France and U. S.; by William McMurtrie. 1880. 294 pp. 32 pl. 4 maps.
[Extensively quoted in Bulletin No. 26, Chemistry Bureau. *See* A8.3:26.]
- No. 29. Condition of crops, Nov. 1, 1880. (In A27.9:18.)
- No. 30. Condition of crops, Dec. 1, 1880. (In A27.9:18.)
- 31 No. 31. Contagious pleuro-pneumonia; 3d report of Charles P. Lyman. 1881. 20 pp. 7 pl.
- No. 32. Condition of crops and live stock, Apr., 1881. (In A27.9:19.)
- 33 No. 33. Analytical work done on sorghum and corastalks by Chemical division, July-Dec., 1880; by Peter Collier. 1881. 101 pp. 27 pl.
- 34 No. 34. Contagious diseases of domesticated animals. 1881. 391 pp. 51 pl.

*No copy found.

A1. SECRETARY—Continued

A1.6: Special reports—Continued

- 35 No. 35. Insects injurious to sugar cane; by J. Henry Comstock. 1881. 11 pp.
- 36 No. 36. Report upon statistics of grape culture and wine production in U. S. for 1880; by William McMurtrie. 1881. 104 pp.
- No. 37. Condition of crops, June–July, 1881. (In A27.9:19.)
- No. 38. Condition of crops, Aug. 1, 1881. (In A27.9:19.)
- No. 39. Condition of crops, Sept. 1, 1881. (In A27.9:19.)
- 40 No. 40. Condition and needs of spring wheat culture in Northwest; by C. C. Andrews. 1882. 99 pp.
- No. 41. Report upon estimated production of cereals of U. S., for year 1881. [February, 1882.] 1882. (In A27.9:20.)
- No. 42. Condition of winter grain, etc., Apr., 1882. (In A27.9:20.)
- No. 43. Condition of winter grain, etc., May, 1882. (In A27.9:20.)
- No. 44. Acreage and condition of cotton, etc., June, 1882. (In A27.9:20.)
- No. 45. Area and condition of corn, etc., July, 1882. (In A27.9:20.)
- No. 46. Condition of corn and cotton, etc., Aug., 1882. (In A27.9:20.)
- 47 No. 47. Climate, soil, and agricultural capabilities of South Carolina and Georgia; by J. C. Hemphill. 1882. 65 pp.
- 48 No. 48. Silos and ensilage; a-record of practical tests in several States and Canada. 1882. 70 pp.
- No. 49. Condition of corn and cotton, etc., Sept., 1882. (In A27.9:20.)
- 50 No. 50. Dissemination of Texas fever of cattle, and how to control it. 1882. 14 pp.
- No. 51. Yield and quality of small grain, etc. 1882. (In A27.9:20.)
- No. 52. Yield per acre of cotton, corn, potatoes, etc. Nov., 1882. (In A27.9:20.)
- No. 53. Product and price of principal crops of 1882. 1882. (In A27.9:20.)
- 54 No. 54. Address of Geo. B. Loring [on sorghum sugar industry] before Mississippi Valley Cane-Growers' Association, St. Louis, Mo., Dec. 14, 1882. 1883. 19 pp.
- 55 No. 55. Grange: its origin, progress, and educational purposes, by D. Wyatt Aiken; read before a convention called by Commissioner of Agriculture January 23, 1883, to consider subject of agricultural education. 1883. 18 pp.
- No. 56. Numbers and values of farm animals, Feb., 1883. (In A27.9:21.)
- No. 57. Distribution, etc., of corn and wheat, Mar., 1883. (In A27.9:21.)
- No. 58. Area and condition of winter wheat, etc., Apr., 1883. (In A27.9:21.)
- No. 59. Condition of winter grain, etc., May, 1883. (In A27.9:21.)
- No. 60. Acreage of spring grain and cotton, etc., June, 1883. (In A27.9:21.)
- No. 61. Area of corn, potatoes, and tobacco, etc., July, 1883. (In A27.9:21.)
- 62 No. 62. Observations on soils and products of Florida; by William Saunders. 1883. 30 pp.
- 63 No. 63. Grasses of U. S.; being a synopsis of tribes and genera, with descriptions of genera, and list of species; by Geo. Vasey. 1883. 47 pp.
- No. 64. Condition of crops, etc., Aug., 1883. (In A27.9:21.)
- No. 65. Condition of crops, Sept., 1883. (In A27.9:21.)

[Series discontinued. Statistical matter of like character published after this date in Statistical report, Statistics division. A27.9:]

A1.7: Miscellaneous special reports

- 1 No. 1. Address of Geo. B. Loring before American Forestry Congress, St. Paul, Minn., Aug. 8, 1883 [on Forestry in U. S.] 1883. 41 pp.
- 2 No. 2. Proceedings of [2d] convention of agriculturists, held at Department of Agriculture, Jan. 23–29, 1883. 1883. 245 pp.
- 3 No. 3. Mississippi: its climate, soil, productions, and agricultural capabilities; by A. B. Hurt. 1884. 89 pp.
- 4 No. 4. Climate, soil, physical resources, and agricultural capabilities of Maine, with special reference to occupation of its new lands; by Samuel L. Boardman. 1884. 60 pp.

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tion no.

A1. SECRETARY—Continued

A1.7: Miscellaneous special reports—Continued

- 5 No. 5. Proper value and management of Government timber lands, and distribution of North American forest trees, being papers read at U. S. Department of Agriculture, May 7-8, 1884. 1884. 47 pp.
- 6 No. 6. Address of Geo. B. Loring at National Convention of Cattle-Breeders, Chicago, Ill., Nov. 13, 1884 [on the cattle industry]; also report of veterinary inspectors of New York. 1884. 21 pp.
- 7 No. 7. Tide marshes of U. S., by D. M. Nesbit; with contributions from U. S. Coast Survey, S. L. Boardman, Eldridge Morse, and others. 1885. 259 pp.
- 8 No. 8. Cotton in Empire of Brazil; antiquity, methods, and extent of its cultivation, with statistics of exportation and home consumption; by John C. Branner. 1885. 79 pp.
- 9 No. 9. Proceedings of convention of delegates from agricultural colleges and experiment stations, held at Department of Agriculture, July 8 and 9, 1885. 1885. 196 pp.
- 10 No. 10. Descriptive catalogue of manufactures from native woods as shown in exhibit of U. S. Department of Agriculture at World's Industrial and Cotton Exposition at New Orleans, La.; by Charles Richards Dodge. 1886. 84 pp.

[Series discontinued.]

A1.8: [Department] reports

[Nos. 1-58 were issued, 1862-1898, without numbers. A list of titles and assigned numbers for this series was printed on cover pages 3 and 4 of No. 69, which was the first to bear a number. A reprint of No. 58, in 1901, bore the number, though the old imprint date, 1898, was retained.]

- 1 [No. 1.] Circular from Commissioner of Agriculture on present agricultural, mineral, and manufacturing conditions and resources of U. S.; [by Isaac Newton]. 1862. 8 pp.
- 2 [No. 2.] Catalogue of plants, bulbs, tubers, etc., for distribution from U. S. propagating garden, with report on object and aims of garden; by William Saunders. 1862. 8 pp.
[Said to be the first publication issued by the Department of Agriculture.]
- 3 [No. 3.] Chemical analysis of grapes; by Charles M. Wetherill. 1862. 6 pp. *
- 4 [No. 4.] List of agricultural, horticultural, and pomological societies and farmers' clubs, etc., on books of Department of Agriculture, July 1, 1870, etc. 1870. 47 pp. *
- 5 [No. 5.] List of agricultural colleges and farmers' clubs and agricultural, horticultural, and pomological societies on books of Department of Agriculture, June 1, 1872, with name of president and secretary of each. 1872. 66 pp.
- 6 [No. 6.] Descriptive catalogue of plants in exotic collection of the Department of Agriculture; by William Saunders. 1872. 51 pp.
- 7 [No. 7.] Department of Agriculture: its history and objects; by James M. Swank. 1872. 64 pp. 12°.
- 8 [No. 8.] Culture and manufacture of ramie and jute in U. S.; by Emile Lefranc. 1873. 19 pp.
- 9 [No. 9.] Eucalyptus globulus from a botanic, economic, and medical point of view, embracing its introduction, culture, and uses; translated from the French of J. E. Planchon. 1875. 20 pp. 1 pl.
- 10 [No. 10.] Planter's guide for cultivating and curing tobacco, with information and instruction concerning the Shelton tobacco-hanger; prepared by Shelton Tobacco-Curing Co., of Asheville, N. C. 1876. 24 pp.
- 11 [No. 11.] Catalogue of forest trees of U. S. which usually attain height of 16 feet or more, with notes and brief descriptions of more important species, illustrating collection of forest-tree section on exhibition by Department of Agriculture at Centennial Exhibition, Philadelphia; by George Vasey. 1876. 38 pp.
- 12 [No. 12.] List of agricultural societies and farmers' clubs established to promote the agricultural, horticultural, and pomological interests of the farmer on books of Department, July 4, 1876, with list of agricultural colleges. 1876. 63 pp.

* No copy found.

- A1.8 [Department] reports—Continued**
- 13 [No. 13.] Statement of appropriations and expenditures of the Department, 1839 to 1877, inclusive. 1877. 18 pp.
 - 14 [No. 14.] General index of agricultural reports of Patent Office, 1837–1861, and of Department of Agriculture, 1862–1876. 1879. 225 pp.
See for supplement, 1877–1885, A1.8:42.
 - 15 [No. 15.] Circular letter from Commissioner of Agriculture relative to manufacture of maize and sorghum sugars. 1879. 21 pp.
 - 16 [No. 16.] Letter of Commissioner of Agriculture to Jno. W. Johnston, chairman of Senate Committee on Agriculture, on sorghum sugar [by W. G. LeDuc]. 1880. 42 pp. 33 pls. 1 folded table.
 - 17 [No. 17.] Address of Geo. B. Loring and other proceedings of Cotton Convention held in Atlanta, Ga., Nov. 2, 1881. 1881. 35 pp.
 - 18 [No. 18.] Fertilizers. Cooperative experimenting as means of studying effects of fertilizers and feeding capacities of plants; by W. O. Atwater. 1882. 33 pp.
 - 19 [No. 19.] Artesian wells upon Great Plains; being report of geological commission appointed to examine a portion of Great Plains east of Rocky Mountains, and report upon localities deemed favorable for making experimental borings [by C. A. White and Samuel Aughey]. 1882. 38 pp. 1 map.
 - 20 [No. 20.] Climatic and agricultural features, and agricultural practices and needs of arid regions of Pacific slope, with notes on Arizona and New Mexico; by E. W. Hilgard, T. C. Jones, and R. W. Furnas. 1882. 182 pp.
 - 21 [No. 21.] Florida: its climate, soil, productions, and agricultural capabilities [papers by George B. Carse and James H. Foss]. 1882. 98 pp.
 - 22 [No. 22.] Proceedings of convention of agriculturists held in Department of Agriculture, Jan. 10–18 [1882]. 1882. 204 pp.
 - 23 [No. 23.] Area and product of cereals grown in 1879 as returned by census of 1880. 1883. 97 pp.
 - 24 [No. 24.] Culture of date; by W. G. Klee. 1883. 25 pp.
 - 25 [No. 25.] Necessity of agricultural education. Address before convention of presidents and professors of agricultural colleges, etc.; by Augustine J. Smith, Jan. 23, 1883. 1883. 15 pp. *
 - 26 [No. 26.] Encouragement to sorghum and beet sugar industry. 1883. 64 pp.
 - 27 [No. 27.] Investigation of sorghum as sugar-producing plant; [by] Peter Collier. 1883. 68 pp. 1 pl. 3 tables.
 - 28 [No. 28.] Preliminary report on forestry of Mississippi Valley, [by F. P. Baker]; Tree planting on plains, [by Robert W. Furnas]. 1883. 45 pp.
 - 29 [No. 29.] Proceedings of national convention of cattle breeders and others, called in Chicago, Nov., 1883, to consider subject of contagious diseases of domestic animals. 1883. 85 pp.
 - 30 [No. 30.] Report on jute culture and importance of the industry; by S. Waterhouse. 1883. 21 pp.
 - 31 [No. 31.] Results of field experiments with various fertilizers; by W. O. Atwater. 1883. 183 pp. 2 folded tables.
 - 32¹ [No. 32.] Agricultural grasses and forage plants of U. S., by Geo. Vasey; also the chemical composition of grasses, by Clifford Richardson. 1884. 144 pp. 120 pl.
 - 32² [No. 32 rev.] Agricultural grasses and forage plants of U. S., and such foreign kinds as have been introduced by Geo. Vasey, botanist, with an appendix on chemical composition of grasses, by Clifford Richardson, and glossary of terms used in describing grasses. New revised and enlarged edition. 1889. 148 pp. 114 pl.
 - 33 [No. 33.] Report of proceeding of national convention of cattle breeders and others, Chicago, Nov. [1884]. 1884. 21 pp. *
 - 34 [No. 34.] Microscopic observations; by Thomas Taylor. Internal parasites in domestic fowls, and butter and fats. 1884. 7 pp. 1 pl.
 - 35 [No. 35.] Soils and products of southwestern Louisiana, including parishes of Saint Landry, Lafayette, Vermilion, Saint Martins, Iberia, and Saint Marys; [by E. E. Rapley]. 1884. 40 pp.

* No copy found.

Tables

Classification no.

A1. SECRETARY—Continued

A1.8: [Department] reports—Continued

- 36 [No. 36.] Organization and management of seven agricultural schools in Germany, Belgium, and England; by A. S. Welch. 1885. 107 pp.
- 37 [No. 37.] Address of Norman J. Colman, Commissioner of Agriculture, before convention of agricultural colleges and experiment stations, Washington, D. C., July 8, 1885. 1885. 17 pp.
- 38 [No. 38.] Addresses of Norman J. Colman and D. E. Salmon, before third national convention of stockmen, Chicago, Nov., 1885. 1885. 29 pp.
- 39 [No. 39.] Directory of departments, boards, societies, colleges, and other organizations in interest of agriculture, horticulture, stock raising, dairying, bee keeping, fish culture, and kindred industries. 1885. 88 pp.
- 40 [No. 40.] Report of exhibits illustrating agricultural statistics at World's Industrial and Cotton Exposition, New Orleans, La.; by J. R. Dodge. 1885. 42 pp. 27 diagrams.
- 41 [No. 41.] Report on condition of dairying in principal dairy States for season of 1885. 1886. 35 pp.
- 42 [No. 42.] Supplement to general index of agricultural reports, 1877 to 1885. 1886. 113 pp.
- 43 [No. 43.] See for general index A1.8:14.
- 43 [No. 43.] Addresses of Norman J. Colman and D. E. Salmon, before national cattle growers' convention, Kansas City, Mo., Oct. 31 and Nov. 1 and 2, 1887. 1887. 11 pp.
- 44 [No. 44.] Rules and regulations of U. S. Department of Agriculture for suppression and extirpation of all contagious, infectious, and communicable diseases among domestic animals of U. S.; [by Norman J. Colman]. 1887. n. t. p. 7 pp.
- 45 [No. 45.] Association of American Agricultural Colleges and Experiment Stations convention held in Washington, D. C., Oct., 1887. Report of committee on station work. W. O. Atwater, S. W. Johnson, Geo. H. Cook, committee. 1888. 32 pp.
- 46 [No. 46.] Hog cholera: its history, nature, and treatment as determined by inquiries and investigations of Bureau of Animal Industry; [by D. E. Salmon]. 1889. 197 pp. 16 pl.
- 47 [No. 47.] Catalogue of economic plants in collection of Department of Agriculture; by William Saunders. 1891. 42 pp.
- 48 [No. 48.] Papers on horticultural and kindred subjects; by William Saunders. Reprinted from reports of Department of Agriculture, 1863-1889. 1891. 124 pp.
- 49¹ [No. 49.] Report on use of maize (Indian corn) in Europe and on possibilities of its extension; 1. Introduction of maize into Europe, by Charles J. Murphy; 2. Food value of maize, by H. W. Wiley; 3. Indian corn industry in United States, by B. W. Snow. 1891. 36 pp.
- 49² Same, in French (with omission of article by Charles J. Murphy). 1892. 22 pp.
- 49³ Same, in German (with omission of article by Charles J. Murphy, and addition of recipe for "Murphy-brod"). 1892. 23 pp.
- 49⁴ Same, in Scandinavian (with omission of article by Charles J. Murphy). 1892. 22 pp.
- 49⁵ Same, in Spanish (with omission of article by Charles J. Murphy). 1892. 24 pp.
- 50 [No. 50.] Progress report on dairy industry of Denmark; by C. C. George-son. [1893.] 14 pp.
- 51 [No. 51.] Studies of parasitic and predaceous insects in New Zealand, Australia, and adjacent islands; by A. Koebele. 1893. 39 pp.
- 52¹ [No. 52.] Indian corn (or maize) in manufacture of beer; by Robert Wahl. 1893. 21 pp.
- 52² Same, German. 1893. 22 pp.
- 53 [No. 53.] Selected correspondence relating to export trade in live stock and meat products; [by J. M. Rusk. 1893.] 33 pp.

See also A1.2:R89.

A1. SECRETARY—Continued

A1.8: [Department] reports—Continued

- 54 [No. 54.] Suggestions regarding cooking of food; by Edward Atkinson; with introductory statements regarding nutritive value of common food materials; by Ellen H. Richards. 1894. 31 pp.
- 55 [No. 55.] List of publications of U. S. Department of Agriculture, 1889-93, inclusive. 1894. 42 pp.
- 56¹ [No. 56.] Arbor day; its history and observance; by N. H. Egleston. 1896. 80 pp.
- 56² Same, rev. ed. 1896. 80 pp.
- 57 [No. 57.] Proceedings of National convention for suppression of insect pests and plant diseases by legislation, held at Washington, D. C., Mar. 5 and 6, 1897; edited by B. T. Galloway. 1897. 31 pp.
- 58¹ [No. 58.] Cultivation of tobacco in Sumatra; by Emile Mulder. 1898. 39 pp. 1 pl.
- 58² No. 58. Same. 1898 [1901]. 39 pp. 1 pl.
- 59 No. 59. Curing and fermentation of cigar-leaf tobacco; by Oscar Loew. 1899. 34 pp.
- 60 No. 60. Temperature changes in fermenting piles of cigar-leaf tobacco; by Milton Whitney and Thos. H. Means. 1899. 28 pp.
- 61 No. 61. Tea culture; the experiment in South Carolina; by Charles U. Shepard. 1899. 27 pp. 9 pl.
- 62 No. 62. Cultivation of cigar-leaf tobacco in Florida; by Marcus L. Floyd. 1899. 31 pp. 8 pl.
- 63 No. 63. Work of agricultural experiment stations on tobacco; abstracted by J. I. Schulte, with introduction and comments by Milton Whitney. 1900. 48 pp.
- 64¹ No. 64. Field operations of Division of Soils, 1899, by Milton Whitney; with accompanying papers by Thomas H. Means, Frank D. Gardner, Clarence W. Dorsey, Frank K. Cameron, Lyman J. Briggs. 1900. 198 pp. 29 pl.
- 64² Same. Maps. 11 maps in cloth folder (octavo).
Same, with maps, 56th Cong., 1st sess., H. doc. 399; serial no. 3985.
[For subsequent editions see A26.5:]
- 65 No. 65. Physiological studies of Connecticut leaf tobacco; by Oscar Loew. 1900. 57 pp.
- 66 No. 66. Sheep and wool, a review of progress of American sheep husbandry; by J. R. Dodge. 1900. 63 pp.
- 67 No. 67. Foreign markets for American agricultural products; testimony of Frank H. Hitchcock before Industrial Commission. 1901. 53 pp.
- 68 No. 68. Catalase, a new enzym of general occurrence, with special reference to tobacco plant; by Oscar Loew. 1901. 47 pp.
- 69 No. 69. Progress of beet-sugar industry in U. S. in 1900. 1901. 178 pp.
See also A1.2:B39 and A1.8:72.
- 70 No. 70. Exhaustion and abandonment of soils; testimony of Milton Whitney before Industrial Commission. 1901. 48 pp.
- 71 No. 71. Some mutual relations between alkali soils and vegetation; by Thomas H. Kearney and Frank K. Cameron. 1902. 78 pp.
- 72 No. 72. Progress of beet-sugar industry in U. S. in 1901. 1902. 106 pp. 15 pl.
Same, 57th Cong., 1st sess., S. doc. 316; serial no. 4241.
See also A1.2:B39 and A1.8:69.
- 73 No. 73. Report of Secretary of Agriculture, 1902. 1902. 96 pp.
See also other prints: A1.1:902.

A1.9: Farmers' bulletins

- 1 No. 1. What and why of agricultural experiment stations. 1889. 16 pp.
- 2 No. 2. Work of agricultural experiment stations. 1890. 16 pp.
- 3 No. 3. Culture of sugar beet; by H. W. Wiley. 1891. 24 pp.
- 4 No. 4. Fungous diseases of grape and their treatment; by B. T. Galloway. 1891. 12 pp.
- 5 No. 5. Treatment of smuts of oats and wheat. 1892. 8 pp. 1 pl.
- 6 No. 6. Tobacco, instructions for its cultivation and curing; by John M. Estes. 1892. 8 pp.

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tion no.

A1. SECRETARY—Continued

A1.9: Farmers' bulletins—Continued

- 7¹ No. 7. Spraying fruits for insect pests and fungous diseases, with special consideration of subject in its relation to public health. 1892. 20 pp.
- 7² No. 7 [partial reprint]. Spraying for fungous diseases of apple, pear, and other fruits. 1895. 14 pp.
- 8 No. 8. Results of experiments with inoculation for prevention of hog cholera; by D. E. Salmon, 1892. 40 pp.
- 9 No. 9. Milk fermentations and their relations to dairying. 1892. 24 pp.
- 10 No. 10. Russian thistle and other troublesome weeds in wheat region of Minnesota and North and South Dakota. 1893. 16 pp. 2 pl.
- 11 No. 11. Rape plant, its history, culture, and uses; by Thomas Shaw. 1893. 20 pp.
- 12 No. 12. Nostrums for increasing yield of butter; by Harvey W. Wiley. 1893. 16 pp.
- 13 No. 13. Cranberry culture; by William Saunders. 1894. 16 pp.
- 14 No. 14. Fertilizers for cotton; by J. M. McBryde. 1894. 32 pp.
- 15 No. 15. Some destructive potato diseases, what they are and how to prevent them; by B. T. Galloway. 1894. 8 pp.
- 16 No. 16. Leguminous plants for green manuring and feeding; by E. W. Allen. 1894. 24 pp.
- 17 No. 17. Peach yellows and peach rosette; by Erwin F. Smith. 1894. 20 pp.
- 18¹ No. 18. Forage plants for the South; by S. M. Tracy. 1894. 30 pp.
- 18² Same, with list of Farmers' bulletins. 1897. 31 pp.
- 19¹ No. 19. Important insecticides, directions for their preparation and use; by C. L. Marlatt. 1894. 20 pp.
- 19² Same, rev. ed. 1895. 23 pp.
- 19³ Same, [reprint, 1897]. 24 pp.
- 19⁴ Same, 3d rev. ed. 1897. 32 pp.
- 19⁵ Same, 4th rev. ed. 1898. 32 pp.
- 20 No. 20. Washed soils: how to prevent and reclaim them. 1894. 22 pp.
- 21 No. 21. Barnyard manure; by W. H. Beal. 1894. 32 pp.
- 22¹ No. 22. Feeding of farm animals; by E. W. Allen. 1895. 32 pp.
- 22² Same, rev. 1897. 32 pp.
- 22³ Same, rev. ed. 1901. 44 pp.
- 23 No. 23. Foods: nutritive value and cost; by W. O. Atwater. 1894. 32 pp.
- 24 No. 24. Hog cholera and swine plague; by D. E. Salmon. 1894. 16 pp.
- 25¹ No. 25. Peanuts: culture and uses; by R. B. Handy. 1895. 24 pp.
- 25² Same [new ed.] 1896. 24 pp.
- 26¹ No. 26. Sweet potatoes, culture and uses; by J. F. Duggar. 1895. 30 pp.
- 26² Same [reprinted]. 1897. 30 pp.
- 26³ Same, revised. 1900. 32 pp.
- 27 No. 27. Flax for seed and fiber in U. S.; by Chas. Richards Dodge. 1895. 16 pp.
- 28¹ No. 28. Weeds, and how to kill them; by Lyster H. Dewey. 1895. 31 pp.
- 28² Same, [reprint, 1898]. With list of Farmers' bulletins. 32 pp.
- 28³ Same, revised edition. 1902. 31 pp.
- 29 No. 29. Souring of milk and other changes in milk products. 1895. 23 pp.
- 30 No. 30. Grape diseases on Pacific coast; by Newton B. Pierce. 1895. 15 pp.
- 31¹ No. 31. Alfalfa, or lucern; [by] Jared G. Smith. 1895. 23 pp.
- 31² Same, rev. ed. 1898. 23 pp.
- 31³ Same, [rev. ed.] 1899. 24 pp.
- 32 No. 32. Silos and silage; by Charles S. Plumb. 1895. 31 pp.
- 33¹ No. 33. Peach growing for market; by Erwin F. Smith. 1895. 24 pp.
- 33² Same [2d ed.] 1895 [1897]. 24 pp.
- 34 No. 34. Meats: composition and cooking; by Chas. D. Woods. 1896. 29 pp.
- 35 No. 35. Potato culture; by J. F. Duggar. 1896. 23 pp.
- 36 No. 36. Cotton seed and its products. 1896. 16 pp.
- 37¹ No. 37. Kafir corn, characteristics, culture, and uses; by C. C. Georgeson. 1896. 12 pp.
- 37² Same, [reprint, different illustrations, p. 12 extended]. 1896 [1897]. 12 pp.

A1.9: Farmers' bulletins—Continued

- 38 No. 38. Spraying for fruit diseases; by B. T. Galloway. 1896. 12 pp.
- 39 No. 39. Onion culture; by R. L. Watts. 1896. 31 pp.
- 40¹ No. 40. Farm drainage; by C. G. Elliott. 1896. 24 pp.
- 40² Same, rev. 1899. 24 pp.
- 41 No. 41. Fowls: care and feeding; by G. C. Watson. 1896. 24 pp.
- 42 No. 42. Facts about milk; by R. A. Pearson. 1896. 29 pp.
- 43 No. 43. Sewage disposal on farm, and protection of drinking water; by Theobald Smith. 1896. 20 pp.
- 44¹ No. 44. Commercial fertilizers, composition and use; by Edward B. Voorhees. 1896. 24 pp.
- 44² Same, [2d print, with changes]. Sept. 1896. 24 pp.
- 45¹ No. 45. Some insects injurious to stored grain; by F. H. Chittenden. 1896. 24 pp.
- 45² Same, rev. ed. 1897. 24 pp.
- 46 No. 46. Irrigation in humid climates; by F. H. King. 1896. 27 pp.
- 47 No. 47. Insects affecting cotton plant; by L. O. Howard. Reprinted, with revision by author, from Bulletin 33, Office of Experiment Stations. 1897. 32 pp.
- 48 No. 48. Manuring of cotton; condensed from article by H. C. White, in Bulletin no. 33 of Office of Experiment Stations. 1897. 16 pp.
- 49 No. 49. Sheep feeding; by John A. Craig. 1897. 24 pp.
- 50¹ No. 50. Sorghum as a forage crop; by Thomas A. Williams. 1897. 20 pp.
- 50² Same, rev. 1899. 20 pp.
- 51¹ No. 51. Standard varieties of chickens; by George E. Howard. 1897. 48 pp.
- 51² Same, [2d ed.] rev. 1897. 48 pp.
- 51³ Same, [3d ed.] rev. 1899. 48 pp.
- 52¹ No. 52. Sugar beet, culture, seed development, manufacture, and statistics; by H. W. Wiley. 1897. 48 pp.
- 52² Same, rev. 1899. 48 pp.
- 52³ Same, 2d rev. ed. [statistical matter revised]; by G. L. Spencer. 1901. 48 pp.
- 53 No. 53. How to grow mushrooms; by William Falconer. 1897. 20 pp.
- 54¹ No. 54. Some common birds in their relation to agriculture; by F. E. L. Beal. 1897. 40 pp.
- 54² Same, rev. 1898. 40 pp.
- 55 No. 55. Dairy herd, its formation and management; by Henry E. Alvord. Reprinted, with revision by author, from Yearbook for 1894. 1897. 24 pp.
- 56 No. 56. Experiment station work, 1. 1897. 31 pp.
See also A10.11:1.
- 57¹ No. 57. Butter making on the farm; by C. P. Goodrich. 1897. 15 pp.
- 57² Same, 2d print. 1897 [1898]. 16 pp.
- 58¹ No. 58. Soy bean as a forage crop, by Thomas A. Williams; with appendix on soy beans as food for man, by C. F. Langworthy. 1897. 24 pp.
- 58² Same, rev. 1897. 24 pp.
- 58³ Same, rev. 1899. 24 pp.
- 59 No. 59. Bee keeping; by Frank Benton. 1897. 32 pp.
- 60¹ No. 60. Methods of curing tobacco; by Milton Whitney. 1897. 16 pp.
- 60² Same, rev. ed. 1898. 16 pp.
- 60³ Same, 2d rev. ed. 1902. 24 pp.
- 61 No. 61. Asparagus culture; by R. B. Handy. 1897. 40 pp.
- 62 No. 62. Marketing farm produce; by George G. Hill. 1897. 28 pp.
- 63 No. 63. Care of milk on farm; by R. A. Pearson. 1897. 40 pp.
- 64 No. 64. Ducks and geese, standard breeds and management; by George E. Howard. 1897. 48 pp.
- 65 No. 65. Experiment station work, 2. 1898. 32 pp.
See also A10.11:1.
- 66¹ No. 66. Meadows and pastures, formation and cultivation in Middle Eastern States; by Jared G. Smith. 1897. 24 pp.
- 66² Same, rev. ed. 1899. 28 pp.
- 67 No. 67. Forestry for farmers; by B. E. Fernow. (Reprinted from Yearbooks of Department of Agriculture for 1894 and 1895.) 1898. 48 pp.

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A1. SECRETARY—Continued

A1.9: Farmers' bulletins—Continued

- 68 No. 68. Black rot of cabbage; by Erwin F. Smith. 1898. 22 pp.
- 69 No. 69. Experiment station work, 3. 1898. 32 pp.
See also A10.11:1.
- 70 No. 70. Principal insect enemies of grape; by C. L. Marlatt. 1898. 23 pp.
- 71 No. 71. Some essentials in beef production; by Charles F. Curtiss. 1898. 24 pp.
- 72 No. 72. Cattle ranges of the Southwest, history of exhaustion of pasturage and suggestions for its restoration; by H. L. Bentley. 1898. 32 pp.
- 73 No. 73. Experiment station work, 4. 1898. 32 pp.
See also A10.11:1.
- 74 No. 74. Milk as food. 1898. 39 pp.
- 75 No. 75. Grain smuts; how they are caused and how to prevent them; by Walter T. Swingle. 1898. 20 pp.
- 76 No. 76. Tomato growing; by Edward B. Voorhees. 1898. 30 pp.
- 77¹ No. 77. Liming of soils; by H. J. Wheeler. 1898. 19 pp.
- 77² Same. rev. 1899. 19 pp.
- 78 No. 78. Experiment station work, 5. 1898. 32 pp.
See also A10.11:1.
- 79 No. 79. Experiment station work, 6. 1898. 28 pp.
See also A10.11:1.
- 80 No. 80. Peach twig-borer, an important enemy of stone fruits; by C. L. Marlatt. 1898. 16 pp.
- 81 No. 81. Corn culture in South; by S. M. Tracy. 1898. 24 pp.
- 82 No. 82. Culture of tobacco; by Otto Carl Butterweck. 1898. 24 pp.
- 83 No. 83. Tobacco soils; by Milton Whitney. 1898. 23 pp.
- 84 No. 84. Experiment station work, 7. 1898. 32 pp.
See also A10.11:1.
- 85 No. 85. Fish as food; by C. F. Langworthy. 1898. 30 pp.
- 86 No. 86. Thirty poisonous plants of U. S.; by V. K. Chesnut. 1898. 32 pp.
- 87 No. 87. Experiment station work, 8. 1899. 32 pp.
See also A10.11:1.
- 88 No. 88. Alkali lands; by Milton Whitney and Thomas H. Means. 1899. 23 pp.
- 89 No. 89. Cowpeas; by Jared G. Smith. 1899. 16 pp.
- 90 No. 90. Manufacture of sorghum sirup; by A. A. Denton. 1899. 32 pp.
- 91 No. 91. Potato diseases and their treatment; by B. T. Galloway. 1899. 12 pp.
- 92 No. 92. Experiment station work, 9. 1899. 30 pp.
See also A10.11:1.
- 93 No. 93. Sugar as food; by Mary Hinman Abel. 1899. 27 pp.
- 94 No. 94. Vegetable garden; by Charles H. Greathouse. 1899. 24 pp.
- 95¹ No. 95. Good roads for farmers; by Maurice O. Eldridge. 1899. 47 pp.
- 95² Same, [2d ed.] 1900. 47 pp.
- 96 No. 96. Raising sheep for mutton; by Charles F. Curtiss. 1899. 48 pp.
- 97 No. 97. Experiment station work, 10. 1899. 32 pp.
See also A10.11:1.
- 98 No. 98. Suggestions to southern farmers. 1899. 48 pp.
- 99 No. 99. Three insect enemies of shade trees; by L. O. Howard. (Reprinted with some annotations by the author from Yearbook of Department of Agriculture for 1895.) 1899. 30 pp.
- 100 No. 100. Hog raising in the South; by S. M. Tracy. 1899. 40 pp.
- 101 No. 101. Millets; by Thomas A. Williams. 1899. 28 pp.
- 102 No. 102. Southern forage plants; compiled from publications of Division of Agrostology, by F. Lamson-Scribner. 1899. 48 pp.
- 103 No. 103. Experiment station work, 11. 1899. 32 pp.
See also A10.11:1.
- 104 No. 104. Notes on frost; by E. B. Garriott. 1899. 24 pp.
- 105 No. 105. Experiment station work, 12. 1899. 32 pp.
See also A10.11:1.
- 106 No. 106. Breeds of dairy cattle; by Henry E. Alvord. (Reprinted from report of Bureau of Animal Industry for 1898.) 1899. 48 pp.

A1. SECRETARY—Continued

A1.9: Farmers' bulletins—Continued

- 107 No. 107. Experiment station work, 13. 1899. 32 pp.
See also A10.11:1.
- 108 No. 108. Saltbushes; by P. Beveridge Kennedy. 1900. 20 pp.
- 109 No. 109. Farmers' reading courses; by L. H. Bailey. (Abridgment of
bull. 72, exp. stations). 1900. 20 pp.
- 110 No. 110. Rice culture in U. S.; by S. A. Knapp. 1900. 28 pp.
- 111 No. 111. Farmer's interest in good seed; by A. J. Pieters. 1900. 24 pp.
- 112 No. 112. Bread and principles of bread making; by Helen W. Atwater.
1900. 39 pp.
- 113 No. 113. Apple and how to grow it; by G. B. Brackett. 1900. 32 pp.
- 114 No. 114. Experiment station work, 14. 1900. 28 pp.
See also A10.11:1.
- 115 No. 115. Hop culture in California; by Daniel Flint. 1900. 28 pp.
- 116 No. 116. Irrigation in fruit growing; by E. J. Wickson. 1900. 48 pp.
- 117 No. 117. Sheep, hogs, and horses in Pacific Northwest; 1. Sheep hus-
bandry, by James Withcombe; 2. Hog raising, by Hiram T.
French; 3. Horse industry, by S. B. Nelson. 1900. 28 pp.
- 118 No. 118. Grape growing in South [by] S. M. Tracy. 1900. 32 pp.
- 119 No. 119. Experiment station work, 15. 1900. 31 pp.
See also A10.11:1.
- 120 No. 120. Principal insects affecting tobacco plant; by L. O. Howard.
(Reprinted, with slight revision by the author, from Yearbook of
Department of Agriculture for 1898.) 1900. 32 pp.
- 121 No. 121. Beans, peas, and other legumes as food; by Mary Hinman Abel.
1900. 32 pp.
- 122 No. 122. Experiment station work, 16. 1900. 32 pp.
See also A10.11:1.
- 123 No. 123. Red clover seed: information for purchasers; by A. J. Pieters.
1901. 11 pp.
- 124 No. 124. Experiment station work, 17. 1901. 32 pp.
See also A10.11:1.
- 125 No. 125. Protection of food products from injurious temperatures; by
H. E. Williams. 1901. 26 pp.
- 126 No. 126. Practical suggestions for farm buildings; by George G. Hill.
1901. 48 pp.
- 127 No. 127. Important insecticides: directions for their preparation and
use; revision of Farmers' Bulletin no. 19; by C. L. Marlatt. 1901.
42 pp.
- 128¹ No. 128. Eggs and their uses as food; by C. F. Langworthy. 1901. 32 pp.
- 128² Same, revised edition. 1901. 32 pp.
- 129¹ No. 129. Sweet potatoes; by D. M. Nesbit. 1901. 40 pp.
- 129² Same [revised]. 1902. 40 pp.
- 130 No. 130. Mexican cotton-boll weevil; by Frederick W. Mally. 1901.
30 pp.
- 131 No. 131. Household tests for detection of oleomargarine and renovated
butter; by G. E. Patrick. 1901. 11 pp.
- 132 No. 132. Principal insect enemies of growing wheat; by C. L. Marlatt.
1901. 40 pp.
- 133 No. 133. Experiment station work, 18. 1901. 32 pp.
See also A10.11:1.
- 134 No. 134. Tree planting on rural school grounds; by Wm. L. Hall. 1901.
38 pp.
- 135 No. 135. Sorghum sirup manufacture; by A. A. Denton. 1901. 40 pp.
- 136 No. 136. Earth roads; by Maurice O. Eldridge. 1902. 24 pp.
- 137 No. 137. Angora goat; by George Fayette Thompson. 1901. 48 pp.
- 138 No. 138. Irrigation in field and garden; by E. J. Wickson. 1901. 40 pp.
- 139 No. 139. Emmer; a grain for semiarid regions; by Mark Alfred Carleton.
1901. 16 pp.
- 140 No. 140. Pineapple growing; by Peter H. Rolfs. 1901. 48 pp.
- 141 No. 141. Poultry raising on farm; by D. E. Salmon. 1901. 16 pp.
- 142 No. 142. Principles of nutrition and nutritive value of food; by W. O.
Atwater. 1902. 48 pp.

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A1. SECRETARY— continued

A1.9: Farmers' bulletins—Continued

- 143 No. 143. Conformation of beef and dairy cattle; by Andrew M. Soule. 1902. 44 pp.
- 144 No. 144. Experiment station work, 19. 1901. 32 pp.
See also A10.11:1.
- 145 No. 145. Carbon bisulphid as an insecticide; by W. E. Hinds. 1902. 28 pp.
- 146 No. 146. Insecticides and fungicides: chemical composition and effectiveness of certain preparations; by J. K. Haywood. 1902. 16 pp.
- 147 No. 147. Winter forage crops for the South; by Carleton R. Ball. 1902. 36 pp.
- 148 No. 148. Celery culture; by W. R. Beattie. 1902. 32 pp.
- 149 No. 149. Experiment station work, 20. 1902. 32 pp.
See also A10.11:1.
- 150 No. 150. Clearing new land; by Franklin Williams, jr. 1902. 24 pp.
- 151 No. 151. Dairying in the South; by S. M. Tracy. 1902. 48 pp.
- 152 No. 152. Scabies in cattle; by Richard W. Hickman. 1902. 24 pp.
- 153 No. 153. Orchard enemies in Pacific Northwest; by C. V. Piper. 1902. 39 pp.
- 154 No. 154. Home fruit garden, preparation and care; by L. C. Corbett. 1902. 20 pp.
- 155 No. 155. How insects affect health in rural districts; by L. O. Howard. 1902. 20 pp.
- 156 No. 156. Home vineyard, with special reference to northern conditions; by W. H. Ragan. 1902. 24 pp.
- 157 No. 157. Propagation of plants; by L. C. Corbett. 1902. 24 pp.
- 158 No. 158. How to build small irrigation ditches; by C. T. Johnston and J. D. Stannard. 1902. 28 pp.
- No. 159. Not yet issued.
- 160 No. 160. Game laws for 1902; summary of provisions relating to seasons, shipment, sale, and licenses; by T. S. Palmer and H. W. Olds. 1902. 56 pp.
- 161 No. 161. Practical suggestions for fruit growers; by H. P. Gould. 1902. 28 pp.

A1.10: Yearbook

[Since 1894 the Yearbook has been issued as second part of the report of the Secretary of Agriculture, including, besides the report of the Secretary, scientific reports of division chiefs and miscellaneous papers on agricultural science.]

- 894 1894, 608 pp., 7 pl.
Same, 53d Cong., 3d sess., H. ex. doc. 355; serial no. 3326.
- 895 1895, 656 pp., 10 pl.
Same, 54th Cong., 1st sess., H. doc. 380; serial no. 3441.
- 896 1896, 686 pp., 6 pl.
Same, 54th Cong., 2d sess., H. doc. 6, pt. 2; serial no. 3496.
- 897 1897, 792 pp., 41 pl.
Same, 55th Cong., 2d sess., H. doc. 454; serial no. 3693.
- 898 1898, 768 pp., 42 pl.
Same, 55th Cong., 3d sess., H. doc. 293; serial no. 3824.
- 899¹ 1899, 880 pp., 64 pl.
- 899² Same, printed on heavier paper and lettered on back "Special edition Paris Exposition, 1900."
Same, 56th Cong., 1st sess., H. doc. 588; serial no. 3996.
- 900 1900, 888 pp., 87 pl., 1 por.
Same, 56th Cong., 2d sess., H. doc. 519; serial no. 4179.
- 901 1901, 846 pp., 90 pl., 1 por.
Same, 57th Cong., 1st sess., H. doc. 661; serial no. 4385.

A1.10': Yearbook (separates)

[The Secretary's report and most of the articles on scientific subjects contained in the Yearbook are printed separately.]

Classification no.

A2. ACCOUNTS AND DISBURSEMENTS DIVISION**A2.1: Annual reports**

- 1892 (Fuller). (In A1.1:892, p. 513.)
 893 1893 (Evans), pp. iii+411-416. (Also in A1.1:893, p. 411.)
 894 1894 (Evans), pp. iii+189-194. (Also in A1.1:894, p. 189.)
 895 1895 (Evans), pp. iii+245-264. (Also in A1.1:895, p. 245.)
 896 1896 (Evans), pp. iii+71-82. (Also in A1.1:896, p. 71.)
 897 1897 (Evans), pp. iii+93-110. (Also in A1.1:897, p. 93.)
 898 1898 (Evans), pp. iii+87-102. (Also in A1.1:898, p. 87.)
 899 1899 (Evans), pp. iii+215-233. (Also in A1.1:899, p. 215.)
 900 1900 (Evans), pp. iii+233-263. (Also in A1.1:900, p. 233.)
 901 1901 (Evans), pp. iii+253-269. (Also in A1.1:901, p. 253.)
 902 1902 (Evans), pp. iii+219-233. (Also in A1.1:902, p. 219.)

A2.2: General publications

[Publications which originated in this Division, but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Division issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

- Ap6 Appropriations. Use of annual appropriations. [Decision of Comptroller of Treasury, Apr. 18, 1900] reprinted for use of disbursing officer, Agriculture Department. n. t. p. 4 pp.
 F49 Financial transactions. Regulations governing financial transactions with U. S. Department of Agriculture, with extracts from Revised Statutes, decisions of the Comptrollers, etc. 1894. 42 pp. 1 folded table.
 F52¹ Fiscal regulations of U. S. Department of Agriculture, with extracts from Revised Statutes, decisions of courts, rulings of the Comptrollers, opinions of Attorneys-General, etc. 1898. 45 pp. 1 folded table.
 F52² Same. Revised edition, 1901. 49 pp. 1 folded table.

A2.3: Bulletins

None issued.

A2.4: Circulars

None issued.

A3. AGROSTOLOGY DIVISION

[For historical sketch of Division, see Yearbook, 1897, p. 160 (A1.10:897). The Division was merged into Bureau of Plant Industry July 1, 1901. See A19.]

A3.1: Annual reports

- 1895 (Scribner). (In A1.1:895, p. 165.)
 896 1896 (Scribner), pp. iii+103-108. (Also in A1.1:896, p. 103.)
 897 1897 (Scribner), pp. [i]+161-166. (Also in A1.1:897, p. 161.)
 898 1898 (Scribner), pp. iii+145-152. (Also in A1.1:898, p. 145.)
 899 1899 (Scribner), pp. iii+113-117. (Also in A1.1:899, p. 113.)
 900 1900 (Scribner), pp. iii+83-90. (Also in A1.1:900, p. 83.)
 1901 (Scribner). This final report of the Division was made through the chief of the Bureau of Plant Industry, forming part of his annual report for 1901. See A1.1:901, p. 67; also A19.1:901, p. 67.]

A3.2: General publications

[Publications which originated in this Division, but which were published in a numbered series of Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Division issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

A3.3: Bulletins

- 1 No. 1. Grasses and forage plants of the Southeastern States; by Thomas H. Kearney, jr. 1895. 28 pp.

Tables

Classification no.

A3. AGROSTOLOGY DIVISION—Continued

A3.3: Bulletins—Continued

- 2¹ No. 2. Fodder and forage plants exclusive of grasses; by Jared G. Smith. 1896. 58 pp.
- 2² Same. Revised ed. 1900. 86 pp. 2 pl.
- 3 No. 3. Useful and ornamental grasses; by F. Lamson-Scribner. 1896. 119 pp.
- 4 No. 4. Studies on American grasses; by F. Lamson-Scribner, Jared G. Smith, and Theo. Holm. 1897. 43 pp. 5 pl.
- 5 No. 5. Grasses and forage plants of Rocky Mountain region; by P. A. Rydberg and C. L. Shear. 1897. 48 pp.
- 6 No. 6. Grasses and forage plants of the Dakotas; by Thomas A. Williams. 1897. 47 pp.
- 7¹ No. 7. American grasses; by F. Lamson-Scribner. 1897. 331 pp.
- 7² No. 7. American grasses, 1. Rev. ed. 1898. 331 pp.
- 7³ Same, 3d ed. 1900. 319 pp.
- 8 No. 8. Studies on American grasses; by F. Lamson-Scribner and Miss E. L. Ogden. 1897. 23 pp. 9 pl.
- 9 No. 9. Grasses and forage plants of Iowa, Nebraska, and Colorado; by L. H. Pammel. 1897. 47 pp.
- 10 No. 10. Grasses and forage plants of central Texas; by H. L. Bentley. 1898. 38 pp.
- 11 No. 11. Studies on American grasses; by Thomas H. Kearney, jr., and F. Lamson-Scribner. 1898. 62 pp. 17 pl.
- 12 No. 12. Grasses and forage plants and forage conditions of eastern Rocky Mountain region; by Thomas A. Williams. 1898. 78 pp.
- 13 No. 13. Red Desert of Wyoming and its forage resources; by Aven Nelson. 1898. 72 pp. 5 pl.
- 14¹ No. 14. Economic grasses; by F. Lamson-Scribner. 1898. 85 pp. 3 pl.
- 14² Same, rev. 1900. 85 pp. 3 pl.
- 15 No. 15. Forage plants and forage resources of Gulf States; by S. M. Tracy. 1898. 55 pp.
- 16 No. 16. Grazing problems in Southwest and how to meet them; by Jared G. Smith. 1899. 47 pp.
- 17¹ No. 17. American grasses, 2; by F. Lamson-Scribner. 1899. 349 pp.
- 17² Same, rev. ed. 1901. 349 pp.
- 18 No. 18. Studies on American grasses; synopsis of genus sitanion; by J. G. Smith. 1899. 21 pp. 4 pl.
- 19¹ No. 19. Structure of caryopsis of grasses, with reference to morphology and classification; by P. Beveridge Kennedy. 1899. 44 pp. 8 pl.
- 19² Same, revised. 1900. 44 pp. 8 pl.
- 20¹ No. 20. American grasses, 3; by F. Lamson-Scribner. 1900. 197 pp.
- 20² Same, rev. ed. 1900. 197 pp.
- 21 No. 21. Studies on American grasses; North American species of chaetochloa; by F. Lamson-Scribner and Elmer D. Merrill. 1900. 44 pp.
- 22 No. 22. Cooperative experiments with grasses and forage plants; by P. Beveridge Kennedy. 1900. 86 pp. 13 pl.
- 23 No. 23. Studies on American grasses: a revision of North American species of bromus occurring north of Mexico; by Cornelius L. Shear. 1900. 66 pp.
- 24 No. 24. Studies on American grasses; by F. Lamson-Scribner, Elmer D. Merrill, and Carleton R. Ball. 1900. 55 pp.
- 25 No. 25. Field work of Division of Agrostology; review and summary of work done since organization of division, July 1, 1895; by Cornelius L. Shear. 1901. 67 pp. 28 pls. 8 maps.

A3.4: Circulars

- 1 No. 1. Note on experimental grass gardens; by Jared G. Smith. Aug. 6, 1895. n. t. p. 4 pp.
- 2 No. 2. Hairy vetch, sand vetch, or Russian vetch; by F. Lamson-Scribner. Oct. 1, 1895. n. t. p. 4 pp.
- 3 No. 3. Saltbushes; by Jared G. Smith. Mar. 13, 1896. n. t. p. 4 pp.
- 4¹ No. 4. Renewing of worn-out native prairie pastures; by Thomas A. Williams. Nov. 2, 1896. n. t. p. 4 pp.

A3. AGROSTOLOGY DIVISION—Continued**A3.4: Circulars—Continued**

- 4² Same, revised. Nov. 15, 1897. n. t. p. 4 pp.
- 5¹ No. 5. Cowpeas; by Jared G. Smith. Nov. 26, 1897. n. t. p. 10 pp.
- 5² Same, rev. ed. Mar. 25, 1898. n. t. p. 11 pp.
- 6¹ No. 6. Cultivated vetches; by Jared G. Smith. Feb. 25, 1898. n. t. p. 7 pp.
- 6² Same, rev. ed. Apr. 15, 1898. n. t. p. 8 pp.
- 7 No. 7. Gram, chick-pea, or Idaho pea; by Jared G. Smith. Nov. 18, 1898. n. t. p. 4 pp.
- 8 No. 8. Experiments in range improvements; by Jared G. Smith. Dec. 27, 1898. n. t. p. 5 pp.
- 9 No. 9. New species of North American grasses; by F. Lamson-Scribner. Feb. 15, 1899. n. t. p. 7 pp.
- 10 No. 10. *Poa fendleriana* and its allies; by Thomas A. Williams. Apr. 15, 1899. n. t. p. 6 pp.
- 11 No. 11. Flat pea; by F. Lamson-Scribner. Apr. 28, 1899. n. t. p. 6 pp.
- 12 No. 12. Rape as a forage plant; by Thomas A. Williams. May 5, 1899. n. t. p. 6 pp.
- 13 No. 13. Florida beggar weed, also known as Beggar weed, Florida clover, Giant Beggar weed; by Jared G. Smith. May 6, 1899. n. t. p. 5 pp.
- 14 No. 14. Velvet bean; by Jared G. Smith. May 13, 1899. n. t. p. 5 pp.
- 15 No. 15. Recent additions to systematic agrostology. July 14, 1899. n. t. p. 10 pp.
- 16 No. 16. New species of North American grasses; by F. Lamson-Scribner. July 1, 1899. n. t. p. 6 pp.
- 17 No. 17. Crimson clover; by Thomas A. Williams. Aug. 19, 1899. n. t. p. 6 pp.
- 18 No. 18. Smooth brome-grass; by P. Beveridge Kennedy. Dec. 1, 1899. n. t. p. 9 pp.
- 19 No. 19. New or little known Mexican grasses; by F. Lamson-Scribner. Dec. 19, 1899. n. t. p. 4 pp.
- 20 No. 20. Experiments with forage plants in Ontario; by P. Beveridge Kennedy. Dec. 15, 1899. n. t. p. 3 pp.
- 21 No. 21. Cooperative range grass and forage plant experiments at Highmore, South Dakota; by F. Lamson-Scribner. Dec. 20, 1899. n. t. p. 10 pp.
- 22 No. 22. Grass and forage plant investigations on the Pacific Coast; by F. Lamson-Scribner. Dec. 22, 1899. n. t. p. 7 pp.
- 23 No. 23. Progress of experiments in forage crops and range improvement at Abilene, Texas; by H. L. Bentley. Dec. 30, 1899. n. t. p. 20 pp.
- 24 No. 24. Cowpeas and corn for silage and fodder; by W. Gettys. Feb. 26, 1900. n. t. p. 10 pp.
- 25¹ No. 25. Turkestan alfalfa; by P. Beveridge Kennedy. Apr. 9, 1900. n. t. p. 20 pp.
- 25² Same, rev. [Aug. 1900.] n. t. p. 20 pp.
- 26 No. 26. Rescue grass; by Cornelius L. Shear. May 21, 1900. n. t. p. 4 pp.
- 27 No. 27. Agrostological notes: Grasses of herbarium of Dr. H. Muhlenberg, by F. Lamson-Scribner and Elmer D. Merrill; Two new species of *Eatonia*, etc. Dec. 4, 1900. n. t. p. 10 pp.
- 28 No. 28. Grasses and fodder plants on Potomac flats; by C. R. Ball. Dec. 13, 1900. n. t. p. 18 pp.
- 29 No. 29. Grasses in Elliott's "Sketch of Botany of South Carolina and Georgia"; by F. Lamson-Scribner. [1901.] n. t. p. 12 pp.
- 30 No. 30. New or little known grasses; by F. Lamson-Scribner. Mar. 8, 1901. n. t. p. 8 pp.
- 31 No. 31. Bermuda grass; by A. S. Hitchcock. Mar. 21, 1901. n. t. p. 6 pp.
- 32 No. 32. Some Arizona grasses; by Elmer D. Merrill. Apr. 22, 1901. n. t. p. 10 pp.
- 33 No. 33. Range grass and forage plant experiments at Highmore, S. Dak., report of progress; by F. Lamson-Scribner. April 2, 1901. n. t. p. 5 pp.

Tables

Classifica-
tion no.

A3. AGROSTOLOGY DIVISION—Continued

A3.1: Circulars—Continued

- 34 No. 34. *Aristida purpurea* Nutt., and its allies; by Elmer D. Merrill. May 24, 1901. n. t. p. 8 pp.
- 35 No. 35. Agrostological notes; by F. Lamson-Scribner and Elmer D. Merrill. June 18, 1901. n. t. p. 6 pp.
- 36 No. 36. List of publications of Division of Agrostology; by F. Lamson-Scribner. June 12, 1901. n. t. p. 8 pp.

A4. ANIMAL INDUSTRY BUREAU

[For historical sketch of Bureau, *see* Yearbook, 1897 (A1.10:897), p. 236.]

A4.1: Annual reports

[The "also" references are to an abbreviated report of the chief without accompanying documents. From 1877 to 1883 reports on contagious diseases of domestic animals accompanied the annual reports of the Secretary. The report for 1881 and 1882 is designated in the running heading as a report of the Veterinary division, though that division was not formally organized until 1883. References to these reports will be found under "Domestic animals" and "Veterinary division" in the index to this work.]

- 884 1884, 1st (Salmon), 512 pp., 19 pl. (Also in A1.1:884, p. 181.)
Same, 48th Cong., 2d sess., H. mis. doc. 25; serial no. 2311.
- 885 1885, 2d (Salmon), 662 pp., 11 pl. (Also in A1.1:885, p. 431.)
Same, 48th Cong., 2d sess., H. mis. doc. 36; serial no. 2311.
- 886 1886, 3d (Salmon), 456 pp., 17 pl. (Also in A1.1:886, p. 593.)
Same, 49th Cong., 2d sess., H. mis. doc. 156; serial no. 2493.
- 887-8 1887 and 1888, 4th and 5th (Salmon), 510 pp., 25 pl. (1887, also in A1.1:887, p. 457; 1888, also in A1.1:888, p. 145.)
Same, 50th Cong., 2d sess., H. mis. doc. 139; serial no. 2665.
- 889-90 1889 and 1890, 6th and 7th (Salmon), 503 pp., 1 pl. (1889, also in A1.1:889, p. 49; 1890, also in A1.1:890, p. 75.)
Same, 51st Cong., 1st sess., H. mis. doc. 270; serial no. 2801.
- 891-2 1890 and 1892, 8th and 9th (Salmon), 428 pp., 19 pl. (1891, also in A1.1:891, p. 83; 1892, also in A1.1:892, p. 85.)
Same, 52d Cong., 2d sess., H. mis. doc. 120; serial no. 3138.
- 893-4 1893 and 1894, 10th and 11th (Salmon), 127 pp. (1893, also in A1.1:893, p. 123; 1894, also in A1.1:894, p. 103.)
Same, 54th Cong., 1st sess., H. doc. 205; serial no. 3420.
- 895-6 1895 and 1896, 12th and 13th (Salmon), 362 pp., 38 pl. (1895, also in A1.1:895, p. 97; 1896, also in A1.1:896, p. 1.)
Same, 54th Cong., 2d sess., H. doc. 291; serial no. 3537.
- 897 1897, 14th (Salmon), 727 pp., 6 pl. (Also in A1.1:897, p. 185.)
Same, 55th Cong., 2d sess., H. doc. 578; serial no. 3680.
- 898 1898, 15th (Salmon), 647 pp., 25 pl., 1 map. (Also in A1.1:898, p. 179.)
Same, 55th Cong., 3d sess., H. doc. 307; serial no. 3831.
- 899 1899, 16th (Salmon), 790 pp. 41 pl. (Also in A1.1:899, p. 243.)
Same, 56th Cong., 1st sess., H. doc. 745; serial no. 4019.
- 900 1900, 17th (Salmon), 642 pp., 98 pl. (Also in A1.1:900, p. 211.)
Same, 56th Cong., 2d sess., H. doc. 549; serial no. 4201.
- 901 1901, 18th (Salmon), 706 pp., 117 pl. (Also in A1.1:901, p. 15.)
Same, 57th Cong., 1st sess., H. doc. 682; serial no. 4387.

[The Bureau also made an annual report to Congress of its employees, expenditures, and work, etc., no Bureau edition of which was issued. Following are the references to these reports as they appear in the Congressional set.]

- 1887, 50th Cong., 1st sess., S. ex. doc. 69; serial no. 2510.
- 1888, 50th Cong., 2d sess., H. mis. doc. 62; serial no. 2654.
- 1889, 51st Cong., 1st sess., S. ex. doc. 24; serial no. 2682.
- 1890, 51st Cong., 2d sess., S. ex. doc. 8; serial no. 2818.
- 1891, 52d Cong., 1st sess., S. ex. doc. 11; serial no. 2892.
- 1892, 52d Cong., 2d sess., S. ex. doc. 20; serial no. 3056.
- 1894, 53d Cong., 3d sess., S. ex. doc. 27; serial no. 3275.
- 1895, 54th Cong., 1st sess., H. doc. 96; serial no. 3414.
- 1896, 54th Cong., 2d sess., S. doc. 45; serial no. 3469.
- 1897, 55th Cong., 2d sess., H. doc. 227; serial no. 3680.
- 1899, 56th Cong., 1st sess., S. doc. 100; serial no. 3850.
- 1900, 56th Cong., 2d sess., S. doc. 96; serial no. 4033.

Classification
no.

A4. ANIMAL INDUSTRY BUREAU—Continued

A4.1^o: Annual reports (separates, reports of chief)

[The personal report of the chief is issued separately in pamphlet form.]

A4.1^o: Annual reports (miscellaneous separates)

[The more important of the scientific papers accompanying the reports of the chief are issued separately in pamphlet form. References to *all* the scientific papers will be found under their proper headings in the index to this work.]

A4.2: General publications

[Publications which originated in this Bureau, but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the Index to this work. Publications of the Bureau issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

- An5 Animals. Contagious diseases of domesticated animals; investigations by Department of Agriculture, 1883-1884. 1884. 368 pp., 17 pl.
- B39 Beef supply of U. S., and export trade in animals and meat products; by D. E. Salmon. Advance sheets from annual report [of Secretary] 1889. 1890. 15 pp. (Special bulletin.)
- C29¹ Cattlemen. Proceedings of interstate convention of cattlemen, held at Fort Worth, Texas, March 11-13, 1890. 1890. 102 pp. (Special bulletin.)
- C29² Cattle. Special report on diseases of cattle and cattle feeding; by Drs. Murray, Atkinson, Harbaugh, Lowe, Law, Dickson, Trumbower, Smith, and Professor Henry. 1892. 496 pp. 44 pl.
Same, 52d Cong., 2d sess., H. mis. doc. 106; serial no. 3125.
- C29³ Same, reprint, 1896. 496 pp. 44 pl.
- D14 Dairy. Fifty dairy rules; reprinted from Farmers' bulletin 63. (Placard.)
- F48 Filled cheese. [Notice of passage of filled-cheese bill.] June 10, 1896. (Circ.)
[To accompany Circular 11 (A4.4:11.)]
- F73 Foot-and-mouth disease. Instructions concerning inspection for foot-and-mouth disease. Dec. 3, 1902. n. t. p. 3 pp.
- F82 Fowl cholera. Report on prevention of fowl cholera; by D. E. Salmon.; Feb. 23, 1881. n. t. p. 2 pp. 4°.
- II78¹ Horse. Special report on diseases of the horse; by Drs. Michener, Law, Harbaugh, Trumbower, Liautard, Holcombe, Huidekoper, and Dickson. 1890. 560 pp. 44 pl.
- II78² Same, reprint, 1896. 576 pp. 44 pl.
- P42 Pork. Instructions for microscopists in examination of pork for trichina. June 26, 1896. n. t. p. 2 l.
- Sh4¹ Sheep. Animal parasites of sheep; by Cooper Curtice. 1890. 222 pp. 36 pl.
- Sh4² Sheep. Special report on history and present condition of sheep industry of U. S.; by Ezra A. Carman, H. A. Heath, and John Minto. 1892. 1,000 pp. 96 pl.
Same, 52d Cong., 2d sess., H. mis. doc. 105, serial no. 3124.
- Sw5 Swine plague. Special report on cause and prevention of swine plague, results of experiments conducted by Theobald Smith. 1891. 166 pp. 12 pl.

A4.3: Bulletins

- 1 No. 1. Investigations into nature, causation, and prevention of Texas or southern cattle fever; by Theobald Smith and F. L. Kilborne. 1893. 301 pp. 10 pl.
- 2 No. 2. Investigations relating to treatment of lumpy jaw or actinomycosis in cattle; by D. E. Salmon. 1893. 90 pp. 8 pl.
- 3 No. 3. Miscellaneous investigations concerning infectious and parasitic diseases of domesticated animals; conducted by F. L. Kilborne, Veranus A. Moore, E. C. Schroeder, Theobald Smith, and C. W. Stiles. 1893. 86 pp. 3 pl.
- 4 No. 4. Revision of the adult cestodes of cattle, sheep, and allied animals; by C. W. Stiles and Albert Hassall. 1893. 134 pp. 16 pl.
- 5 No. 5. Dairy industry of Denmark; by C. C. Georgeson. 1893. 133 pp.

Tables

Classification no.

A4. ANIMAL INDUSTRY BUREAU—Continued

A4.3: Bulletins—Continued

- 6 No. 6. Additional investigations concerning infectious swine diseases; [articles] by Theobald Smith and Veranus A. Moore. 1894. 117 pp.
- 7 No. 7. Investigations concerning bovine tuberculosis, with special reference to diagnosis and prevention. 1894. 178 pp. 6 pl.
- 8 No. 8. Investigations concerning infectious diseases among poultry; [articles] by Theobald Smith and Veranus A. Moore. 1895. 90 pp. 6 pl.
- 9 No. 9. Rules and regulations governing operations of Bureau of Animal Industry; also acts of Congress under which they are made. 1895. 46 pp.
- 10 No. 10. Cornstalk disease and rabies in cattle; [articles] by Veranus A. Moore and E. A. de Schweinitz. 1896. 92 pp. 2 pl.
- 11 No. 11. Statistics of the dairy; compiled from U. S. Census, 1890, and other reliable sources by Henry E. Alvord. 1896. 53 pp.
- 12 No. 12. Tapeworms of poultry; report [by] Ch. Wardell Stiles [and] Bibliography, [by] Albert Hassall. 1896. 88 pp. 22 pl.
- 13 No. 13. Tuberculosis investigations; [articles] by E. A. de Schweinitz, Marion Dorset, and E. C. Schroeder. 1896. 27 pp. 2 pl.
- 14 No. 14. Dairying in California; by E. J. Wickson. 1896. 31 pp.
- 15 No. 15. Cheese industry of State of New York; by B. D. Gilbert. 1896. 54 pp.
- 16 No. 16. Dairy industry in Nebraska, South Dakota, and North Dakota; by John H. Monrad. 1896. 21 pp.
- 17 No. 17. Dairy schools; by R. A. Pearson. 1896. 38 pp. 4 pl.
- 18 No. 18. Dairy industry in Missouri and Kansas; by Levi Chubbuck. 1897. 23 pp.
- 19 No. 19. Inspection of meats for animal parasites; [articles by] Ch. Wardell Stiles and Albert Hassall. 1898. 161 pp.
Same, 55th Cong., 2d sess., H. doc. 338; serial no. 3680.
- 20 No. 20. Milk supply of Boston and other New England cities; by George M. Whittaker. 1898. 37 pp. 3 pl.
- 21¹ No. 21. Sheep scab: its nature and treatment; by D. E. Salmon and Ch. Wardell Stiles. 1898. 64 pp. 6 pl.
- 21² Same, revised. 1900. 64 pp. 6 pl.
- 22 No. 22. Proceedings of second annual meeting of association of experiment station veterinarians, held at Omaha, Nebr., Sept. 8, 1898. 1898. 29 pp.
- 23¹ No. 23. Serum treatment of swine plague and hog cholera; by E. A. de Schweinitz, with collaboration of Marion Dorset and E. C. Schroeder. 1899. 18 pp.
- 23² Same, by E. A. de Schweinitz, with collaboration of Marion Dorset. 1899. 18 pp.
- 24 No. 24. Notes upon dairying in California and export of California butter to Orient; by R. A. Pearson. 1900. 29 pp. 4 pl.
- 25 No. 25. Rabies. Report of committee on Public Health of Medical Society of District of Columbia. 1900. 29 pp.
- 26 No. 26. National and State dairy laws; compiled and abstracted by R. A. Pearson. 1900. 100 pp.
- 27 No. 27. Information concerning Angora goat; by George Fayette Thompson. 1901. 94 pp. 17 pls.
- 28 No. 28. Legislation with reference to bovine tuberculosis, being digest of laws now in force, and transcript of laws, rules and regulations, and proclamations for the several States and Territories; [compiled] by D. E. Salmon. 1901. 173 pp.
- 29 No. 29. American breeds of fowls; 1. Plymouth Rock; by T. F. McGrew. 1901. 32 pp. 6 pl.
- 30 No. 30. Trichinosis in Germany, Parts 1-3, [articles] by Ch. Wardell Stiles; pt. 4, Bibliography, by Albert Hassall, 1901. 211 pp.
- 31 No. 31. American breeds of fowls; 2. Wyandotte; by T. F. McGrew. 1901. 30 pp. 10 pl.
- 32 No. 32. Tuberculin test of imported cattle; by D. E. Salmon. 1901. 22 pp.

Classification no.

A4. ANIMAL INDUSTRY BUREAU—Continued

A4.3: Bulletins—Continued

- 33 No. 33. Relation of bovine tuberculous to public health; by D. E. Salmon. 1901. 36 pp.
- 34 No. 34. American breeds of beef cattle, with remarks on pedigrees; by George M. Rommel. 1902. 34 pp. 23 pl.
- 35 No. 35. Eleven miscellaneous papers on animal parasites. 1902. 61 pp. 5 pls.
- 36 No. 36. Apoptectiform septicemia in chickens. Preliminary report on a highly fatal disease caused by nonpyogenic streptococcus; by Victor A. Nørgaard and John R. Mohler. 1902. 24 pp. 4 pl.
- 37 No. 37. Market classes of horses; by George M. Rommel. 1902. 32 pp. 12 pl.
- No. 38. Not issued 1902.
- 39 No. 39. Index catalogue of medical and veterinary zoology, pt. 1. Authors: A to Azevedo; by Ch. Wardell Stiles and Albert Hassall. 1902. 46 pp.
- 40 No. 40. Description and treatment of scabies in cattle; by Richard W. Hickman. 1902. 23 pp. 1 pl.
[Identical with A1.9:152.]
- 41 No. 41. Mexico as a market for pure-bred beef cattle from U. S.; by D. E. Salmon. 1902. 28 pp. 1 map.
- 42 No. 42. Emergency report on surra, by D. E. Salmon and Ch. Wardell Stiles; with bibliography of surra and allied trypanosomatic diseases, by Albert Hassall. 1902. 152 pp. 16 pl.
- 43 No. 43. State and Territorial laws relating to contagious and infectious diseases of animals, 1901. 1902. 72 pp.

A4.4: Circulars

- ¹ [No. 1. Directions for sterilization of milk.] Dec. 19, 1893. (Circ.)
- ² Same, 2d ed. July 24, 1894. (Circ.)
- ³ No. 1. Same. [3d ed.] Dec. 19, 1893 [1896]. (Circ.)
- ⁴ No. 1. Directions for pasteurization of milk; revised Nov. 15, 1897. (Circ.)
- 2 No. 2. Wheat as a food for growing and fattening animals; by D. E. Salmon. n. d. n. t. p. 4 pp.
- 3 No. 3. Nodular tæniasis in fowls; by Veranus A. Moore. Aug. 28, 1895. n. t. p. 4 pp.
- 4 No. 4. Crossing improved breeds of swine with the common hogs of Florida; by Robt. W. Furnas. Dec. 28, 1895. n. t. p. 3 pp.
- 5 No. 5. Direct transmission of infectious entero-hepatitis in turkeys; by Veranus A. Moore. Mar. 11, 1896. n. t. p. 8 pp.
- 6 No. 6. Black quarter; by D. E. Salmon. n. d. n. t. p. 4 pp.
- 7 No. 7. Actinomycosis, or lumpy jaw; by D. E. Salmon. n. d. n. t. p. 4 pp.
- 8 No. 8. Injuries to cattle from swallowing pointed objects; by Theobald Smith and Charles F. Dawson. n. d. n. t. p. 4 pp.
- 9 No. 9. Checklist of animal parasites of chickens; by Albert Hassall. Mar. 25, 1896, with addendum, Apr. 10, 1896. n. t. p. 7 pp.
- 10 No. 10. List of State dairy commissioners and associations of dairymen in the U. S. and Canada, 1896; by Henry E. Alvord. Mar. 30, 1896. n. t. p. 6 pp.
- 11 No. 11. How to select good cheese; by Henry E. Alvord. Apr. 20, 1896. n. t. p. 11 pp.
[For notice to accompany, see A4.2:F48.]
- 12 No. 12. Checklist of animal parasites of turkeys; by Albert Hassall. Apr. 29, 1896. n. t. p. 3 pp.
- 13 No. 13. Checklist of animal parasites of ducks; by Albert Hassall. May 14, 1896. n. t. p. 7 pp.
- 14 No. 14. Checklist of animal parasites of geese; by Albert Hassall. June 15, 1896. n. t. p. 5 pp.
- 15 No. 15. Checklist of animal parasites of pigeons; by Albert Hassall. July 21, 1896. n. t. p. 4 pp.
- 16 No. 16. Correspondence defining "filled cheese." Sept. 1, 1896. n. t. p. 2 pp.

Tables

Classification
no.

A4. ANIMAL INDUSTRY BUREAU—Continued

A4.4: Circulars—Continued

- 17 No. 17. Exports of animals and their products; by D. E. Salmon. Jan. 21, 1897. n. t. p. 3 pp.
- 18 No. 18. List of officials and associations connected with dairy interests in U. S. and Canada for 1897; by Henry E. Alvord. Apr. 10, 1897. n. t. p. 8 pp.
- 19 No. 19. Factory cheese and how it is made; by G. Merry. n. d. n. t. p. 8 pp.
- 20 No. 20. Preventive vaccination against blackleg; by D. E. Salmon. n. t. p. 2 pp.
- 21 No. 21. Directions for use of blackleg vaccine; by [Victor E. Nørgaard]. Aug. 3, 1897. n. t. p. 8 pp.
[No. 23, 2d revision, is issued under identical title.]
- 22 No. 22. List of officials connected with dairy interests, 1898; by Henry E. Alvord. Mar. 1, 1898. n. t. p. 8 pp.
- 23¹ No. 23. Blackleg: its nature, cause, and prevention; by Victor A. Nørgaard. Mar. 12, 1898. n. t. p. 12 pp.
- 23² Same, rev. ed. Feb. 11, 1899. n. t. p. 15 pp.
- 23³ Same, 2d revision. Apr. 21, 1900. n. t. p. 8 pp.
[Title changed to "Directions for use of blackleg vaccine"; identical with A4.4:21.]
- 24 No. 24. Colored spots in cheese; by R. A. Pearson. July 22, 1898. n. t. p. 7 pp.
- 25¹ No. 25. State standards for dairy products. 1898. Oct. 31, 1898. (Circ.)
- 25² Same, revised. Mar. 1, 1902. n. t. p. 3 pp.
- 26 No. 26. Officials, associations, and educational institutions connected with dairy interests of U. S. for year 1899; by Henry E. Alvord. Mar. 1, 1899. n. t. p. 8 pp.
- 27¹ No. 27. Scales of points in use in U. S. for judging dairy breeds of cattle; reprinted from 15th annual report of Bureau of Animal Industry. 1899. 16 pp.
- 27² Same, revised. May 8, 1900. n. t. p. 16 pp.
- 28 No. 28. Letters relating to distribution of vaccine. [1900.] n. t. p. 9 pp.
- 29 No. 29. Officials, associations, and educational institutions connected with dairy interests for 1900; by Henry E. Alvord. Feb. 24, 1900. n. t. p. 10 pp.
- 30 No. 30. Rabies in District of Columbia; by D. E. Salmon. Apr. 30, 1900. n. t. p. 15 pp.
- 31¹ No. 31. Blackleg, its nature, cause, and prevention; by Victor A. Nørgaard. June 5, 1900. n. t. p. 22 pp.
- 31² Same, revised. Nov. 10, 1900. n. t. p. 23 pp.
- 32 No. 32. Imperial German meat inspection law. Feb. 15, 1901. n. t. p. 19 pp.
- 33 No. 33. Officials, associations, and educational institutions connected with dairy interests of U. S., 1901; by Henry E. Alvord. Feb. 23, 1901. n. t. p. 8 pp.
- 34 No. 34. Notes on parasites, 55-57; by Ch. Wardell Stiles and Albert Hassall. Mar. 26, 1901. n. t. p. 4 pp.
- 35 No. 35. Treatment of roundworms in sheep, goats, and cattle; by Ch. Wardell Stiles. July 24, 1901. n. t. p. 8 pp.
- 36 No. 36. Officials, associations, and educational institutions connected with dairy interests of U. S., 1902; by Henry E. Alvord. Mar. 1, 1902. n. t. p. 8 pp.
- 37 No. 37. Preliminary report on Argentina as a market for pure-bred cattle from U. S.; by D. E. Salmon. Apr. 26, 1902. n. t. p. 4 pp.
- 38 No. 38. Foot-and-mouth disease, warning to all owners of cattle, sheep, and swine; by D. E. Salmon. Dec. 4, 1902. n. t. p. 3 pp.

A4.5: B. A. I. Orders (signed by Secretary of Agriculture)

[From July 1, 1885, to Feb. 19, 1897, ninety circular orders were issued without numbers. The full text of these orders is given in the 14th annual report of the Bureau of Animal Industry, 1897, beginning at p. 324 (A4.1:897).]

- 1 No. 1. Exportation of beef. Mar. 9, 1897. (Circ.)
- 2¹ No. 2. Modifying quarantine line for California. Mar. 19, 1897. (Circ.)

A4.5: B. A. I. Orders—Continued

- 2² Same, amended. July 17, 1897. (Circ.)
- 3 No. 3. Modifying quarantine line for Oklahoma. (Amendment.) Apr. 26, 1897. (Circ.)
- 4 No. 4. Concerning cattle transportation. May 17, 1897. (Amendment to order dated Jan. 27, 1897.) (Circ.)
- 5 No. 5. Transportation of sheep affected with scabies. June 18, 1897.
- 6¹ No. 6. Placing counties in Texas in quarantine. July 6, 1897. (Circ.)
- 6² Same, amended. July 13, 1897. (Circ.)
- 7 No. 7. Placing counties in Tennessee in quarantine. Aug. 16, 1897. (Circ.)
- 8-14 No. 8. Concerning cattle transportation, 1898. Dec. 15, 1897. Nos. 9-14. [Supplementary quarantine regulations, 1898.] Dec. 16, 1897. n. t. p. 9 pp.
- 15 No. 15. Cattle transportation, feeding stations at Fort Worth, Tex., and Salisbury, N. C. Jan. 3, 1898. (Amendment to no. 8.) (Circ.)
- 16 No. 16. Cattle transportation, suspending no. 8. Jan. 22, 1898. (Circ.)
- 17 No. 17. Cattle transportation, amendment to no. 8. Mar. 4, 1898. (Circ.)
- 18 No. 18. Modifying quarantine line for California; supersedes and revokes no. 9. Mar. 25, 1898. (Circ.)
- 19 No. 19. Safe transport of cattle to foreign countries. May 11, 1898. (Amendment to section 18 of order dated Feb. 18, 1895.) (Circ.)
- 20 No. 20. Placing certain counties in Texas in quarantine (additional to no. 10). Aug. 17, 1898. (Circ.)
- 21 No. 21. Releasing cattle in counties of Union, Towns, and part of Rabun, Ga., from restrictions. Sept. 7, 1898. (Circ.)
- 22 No. 22. Placing counties in Texas in quarantine (additional to no. 10). Sept. 30, 1898. (Circ.)
- 23 No. 23. Modifying no. 8. Oct. 12, 1898. (Circ.)
- 24 No. 24. Concerning cattle transportation. Dec. 19, 1898. n. t. p. 4 pp.
- 25-29 Nos. 25-29. Supplementary quarantine regulations, 1899. Dec. 20, 1898. n. t. p. 6 pp.
- 30 No. 30. Placing certain counties in Texas in quarantine (additional to no. 25). Jan. 9, 1899. (Circ.)
- 31 No. 31. Concerning cattle transportation (amendment to no. 24). Jan. 9, 1899. (Circ.)
- 32 No. 32. Concerning cattle transportation (amendment to no. 24). Mar. 8, 1899. (Circ.)
- 33¹ No. 33. Rules and regulations for inspection of live stock, etc. Mar. 15, 1899. n. t. p. 9 pp.
- 33² Same, with general instructions to inspectors, etc. Mar. 15, 16, 1899. n. t. p. 17 pp. 16°. [Title on cover M[eat] I[n]spection] rules and regulations and instructions.]
- 33³ No. 33. Amendment no. 2. June 21, 1902. (Circ.)
[For amendment no. 1, see A4.5:78.]
- 34 No. 34. Concerning cattle transportation (amendment to no. 29). Mar. 25, 1899. (Circ.)
- 35¹ No. 35. Inspection and safe transport of animals to foreign countries. May 1, 1899. n. t. p. 11 pp.
- 35² Same, modifications and extension. Sept. 11, 1899. (Circ.)
- 36 No. 36. Placing certain counties in Texas in quarantine (additional to no. 25 and no. 30). June 27, 1899. (Circ.)
- 37 No. 37. Providing for return to non-infected district of cattle exhibited at State fair, Raleigh, North Carolina (supplementary to no. 24). July 18, 1899. (Circ.)
- 38 No. 38. Dipping of sheep affected with scabies. July 20, 1899. (Circ.)
- 39 No. 39. Inspection and certification of graded cattle for Cuba. July 21, 1899. 3 pp. (half title.)
- 40 No. 40. Revocation of no. 39. July 28, 1899. (Circ.)
- 41 No. 41. Releasing cattle in counties of Union, Towns, and part of Rabun, Ga., from restrictions of no. 24. Aug. 1, 1899. (Circ.)
- 42 No. 42. Placing Washita County, Okla., in quarantine (additional to no. 26). Aug. 4, 1899. (Circ.)

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A4. ANIMAL INDUSTRY BUREAU—Continued

A4.5: B. A. I. Orders—Continued

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|------------------|--|
| 43 | No. 43. Providing for return to noninfected district of cattle exhibited at State fair, Sacramento, Cal. (supplementary to no. 24). Aug. 28, 1899. (Circ.) |
| 44 | No. 44. Providing additional ports of export for Canadian cattle in bond. Aug. 28, 1899. (Circ.) |
| 45 | No. 45. Modifying quarantine line for California (amendment to no. 24). Aug. 30, 1899. (Circ.) |
| 46 ¹ | No. 46. Superseding no. 35. Oct. 4, 1899. n. t. p. 11 pp. |
| 46 ² | Same, amendment no. 1. Nov. 18, 1901. (Circ.) |
| 47 | No. 47. Concerning cattle transportation (amendment to no. 24). Oct. 21, 1899. (Circ.) |
| 48 | No. 48. Concerning movement of animals from districts in which rabies exists. Dec. 11, 1899. (Circ.) |
| 49 | No. 49. Concerning cattle transportation. Dec. 16, 1899. n. t. p. 4 pp. (Also in A4.5:49-55.) |
| 49-55 | No. 49. Concerning cattle transportation. Dec. 16, 1899. Nos. 50-55. Supplementary quarantine regulations. 1900. Dec. 19, 1899. n. t. p. 10 pp. |
| 56 ¹ | No. 56. Inspection and quarantine of horses, neat cattle, sheep, and other ruminants, and swine, imported. Dec. 28, 1899. n. t. p. 10 pp. |
| | Same, Amendment no. 1. See A4.5:58. |
| | Same, Amendment no. 2. See A4.5:64. |
| | Same, Amendment no. 3. See A4.5:77. |
| | Same, Amendment no. 4. See A4.5:79. |
| 56 ² | Same, Amendment no. 5. [Cattle may be tested in Europe or Canada.] May 21, 1901. (Circ.) |
| 56 ³ | Same, Amendment no. 6. Oct. 4, 1901. (Circ.) |
| 56 ⁴ | Same, Amendment no. 7. Oct. 16, 1901. (Circ.) |
| 56 ⁵ | Same, Amendment no. 8. Nov. 23, 1901. (Circ.) |
| 56 ⁶ | Same, Amendment no. 9. Mar. 22, 1902. (Circ.) |
| 56 ⁷ | Same, Amendment no. 10. May 7, 1902. (Circ.) |
| 56 ⁸ | Same, Amendment no. 11. Aug. 20, 1902. (Circ.) |
| 56 ⁹ | Same, Amendment no. 12. Oct. 25, 1902. (Circ.) |
| 56 ¹⁰ | Same, Amendment no. 13. Dec. 15, 1902. (Circ.) |
| 57 | No. 57. Cattle transportation (amendment to no. 49). (Circ.) Jan. 20, 1900. |
| 58 | No. 58. Inspection and quarantine of horses and other ruminants and swine imported into U. S. Modification of no. 56. Jan. 27, 1900. (Circ.) |
| 59 | No. 59. Releasing certain cattle in California from restrictions imposed by Order 49. Feb. 26, 1900. (Circ.) |
| 60 | No. 60. Providing for return to noninfected district of cattle exhibited at State fair at Raleigh, N. C. Apr. 6, 1900. (Circ.) |
| 61 | No. 61. Exportation of cattle and sheep in vessels carrying hides from foreign countries. Apr. 23, 1900. (Circ.) |
| 62 | No. 62. Cattle transportation (amendment to no. 49). May 11, 1900. (Circ.) |
| 63 | No. 63. Cattle transportation (amendment to no. 49). May 16, 1900. (Circ.) |
| 64 | No. 64. Inspection and quarantine of horses and other ruminants and swine, imported into U. S. (amendment to no. 56). June 1, 1900. (Circ.) |
| 65 | No. 65. Providing for importation of Canadian cattle for exhibition purposes at Pan-American Exposition, Buffalo, N. Y. June 15, 1900. (Circ.) |
| 66 | No. 66. Regulations concerning cattle transportation (amendment to no. 49). July 13, 1900. (Circ.) |
| 67 | No. 67. Providing for importation of Canadian cattle, sheep, and swine for exhibition purposes at International Livestock Exposition, Chicago, Ill. July 13, 1900. (Circ.) |
| 68 | No. 68. Revoking no. 63. Aug. 13, 1900. (Circ.) |
| 69 | No. 69. Supplemental to nos. 55 and 59. Aug. 18, 1900. (Circ.) |
| 70 | No. 70. Supplementary to no. 49. Aug. 20, 1900. (Circ.) |
| 71 | No. 71. Revoking no. 66. Aug. 23, 1900. (Circ.) |

A4. ANIMAL INDUSTRY BUREAU—Continued

Classification no.

A4.5: B. A. I. Orders—Continued

- 72 No. 72. Amendment to nos. 49 and 51. Aug. 29, 1900. (Circ.)
- 73 No. 73. Providing for exhibition of uninspected cattle at Golden Gate Fair (supplemental to nos. 55 and 59). Sept. 8, 1900. (Circ.)
- 74 No. 74. Amendment to nos. 49 and 51. Sept. 17, 1900. (Circ.)
- 75 No. 75. Amendment to nos. 49 and 50. Sept. 26, 1900. (Circ.)
- 76 No. 76. Amendment to no. 49. Oct. 9, 1900. (Circ.)
- 77 No. 77. Inspection and quarantine of horses and other ruminants, and swine, imported (amendment to no. 56). Oct. 20, 1900. (Circ.)
- 78 No. 78. Inspection of live stock and products (amendment to no. 33). Oct. 22, 1900. (Circ.)
- 79 No. 79. Inspection and quarantine of horses and other ruminants, and swine, imported (amendment to no. 56). Nov. 10, 1900. (Circ.)
- 80-87¹ No. 80. Regulations concerning cattle transportation; Nos. 81-87, supplementary quarantine regulations (amendments nos. 1-7). Dec. 10-14, 1900. n. t. p. 12 pp.
See for amendment no. 8, A4.5:88; for amendment no. 9, A4.5:89.
- 80-87² Same, Amendment no. 10. Jan. 31, 1901. (Circ.)
- 80-87³ Same, Amendment no. 11. Feb. 5, 1901. (Circ.)
- 80-87⁴ Same, Amendment no. 12. Apr. 18, 1901. (Circ.)
- 80-87⁵ Same, Amendment no. 13. Apr. 20, 1901. (Circ.)
- 80-87⁶ Same, Amendment no. 14. July 13, 1901. (Circ.)
- 80-87⁷ Same, Amendment no. 15. Aug. 21, 1901. (Circ.)
- 80-87⁸ Same, Amendment no. 16. Oct. 3, 1901. (Circ.)
- 80-87⁹ Same, Amendment no. 17. Oct. 15, 1901. (Circ.)
- 80-87¹⁰ Same, Amendment no. 18. Oct. 22, 1901. (Circ.)
- 88 No. 88. Amendment to no. 80. Dec. 22, 1900. (Circ.)
- 89 No. 89. Amendment to no. 80. Dec. 22, 1900. (Circ.)
- 90 No. 90. Importation of Canadian cattle, sheep, and swine for exhibition at Chicago. Sept. 12, 1901. (Circ.)
- 91 No. 91. Rules and regulations for inspection and marking dairy products for export. Oct. 30, 1901. n. t. p. 3 pp.
- 92 No. 92. Prohibiting landing of animals from Philippine Islands. Dec. 13, 1901. (Circ.)
- 93¹ No. 93. Regulations concerning cattle transportation. Jan. 10, 1902. (Contains amendments 1-8 to no. 93, and changes in quarantine line for 1902.) n. t. p. 16 pp.
- 93² Same, Amendment no. 9. Jan. 23, 1902. (Circ.)
- 93³ Same, Amendment no. 10. Feb. 13, 1902. (Circ.)
- 93⁴ Same, Amendment no. 11. Mar. 1, 1902. (Circ.)
- 93⁵ Same, Amendment no. 12. Mar. 14, 1902. (Circ.)
- 93⁶ Same, Amendment no. 13. Apr. 16, 1902. (Circ.)
- 93⁷ Same, Amendment no. 14. June 28, 1902. (Circ.)
- 93⁸ Same, Amendment no. 15. July 30, 1902. (Circ.)
- 93⁹ Same, Amendment no. 16. July 30, 1902. (Circ.)
- 93¹⁰ Same, Amendment no. 17. Sept. 10, 1902. (Circ.)
- 93¹¹ Same, Amendment no. 18. Oct. 10, 1902. (Circ.)
- 93¹² Same, Amendment no. 19. Oct. 22, 1902. (Circ.)
- 94 No. 94. Rules and regulations in regard to "renovated butter," and information concerning "adulterated butter." June 21, 1902. n. t. p. 12 pp.
- 95 No. 95. Importation of Canadian animals for exhibition at State fair, Syracuse, N. Y. June 26, 1902. (Circ.)
- 96 No. 96. Importation of Canadian cattle, sheep, and swine for exhibition at International Live-stock Exhibition, Chicago. July 16, 1902. (Circ.)
- 97 No. 97. Extracts from existing laws, with rules and regulations as therein provided, prescribed for inspection and certification of renovated butter and other dairy products for export. Oct. 1, 1902. n. t. p. 6 pp.
[Printed "No. 96," changed with rubber stamp to "No. 97."]
- 98 No. 98. Rules and regulations prescribed in regard to "renovated butter," in accordance with act of Congress approved May 9, 1902, and information concerning "adulterated butter." Nov. 1, 1902. n. t. p. 16 pp.

Tables

Classification no.

A4. ANIMAL INDUSTRY BUREAU—Continued

A4.5: B. A. 1. Orders—Continued

- 99¹ No. 99. Quarantine of cattle, sheep, and other ruminants, and swine in New England States. Nov. 27, 1902. (Circ.)
- 99² Same, Amendment no. 1. Nov. 29, 1902. (Circ.)
- 99³ Same, Amendment no. 2. Dec. 13, 1902. (Circ.)
- 99⁴ Same, Amendment no. 3. Dec. 22, 1902. (Circ.)
- 100 No. 100. Prohibition of exportation of cattle, sheep, and other ruminants, and swine from port of Boston. Nov. 27, 1902. (Circ.)
- 101 No. 101 Concerning cattle transportation. Dec. 26, 1902. (Contains amendments nos. 1-9.) n. t. p. 15 pp.

A4.6: Map of districts infected with splenic fever

- 891 1891, Feb. 5.
- 892 1892, Feb. 26.
- 893 1893, Feb. 15.
- 894 1894, Feb. 5.
- 895 1895, Feb. 5.
- 896 1896, June.
- 897 1897, Feb.
- 898 1898, Jan. 1.
- 899 1899, Jan. 1.
- 900 1900, Jan. 1.
- 901 1901, Jan. (in 5 sections).

A5. BIOLOGICAL SURVEY

[Formerly known as Division of Ornithology and Mammalogy or Economic Ornithology and Mammalogy. For historical sketch of Division, see Yearbook, 1897 (A1.10:897), p. 115.]

A5.1: Annual reports

- ORNITHOLOGIST
- 886 1886 (Merriam), [1]+227-258 pp. 1 map. (Also in A1.1:886, p. 227.)
- 887 1887 (Merriam), iii+399-456+ii pp. 1 pl. (Also in A1.1:887, p. 399.)
- ORNITHOLOGIST AND MAMMALOGIST
- 888 1888 (Merriam), iii+477-536 pp. 1 pl. (Also in A1.1:888, p. 477.)
- 889 1889 (Merriam), [1]+363-376 pp. 2 pl. (Also in A1.1:889, p. 363.)
- 890 1890 (Merriam), iii+277-285 pp. (Also in A1.1:890, p. 277.)
- 891 1891 (Merriam), [1]+267-271 pp. (Also in A1.1:891, p. 267.)
- 892 1892 (Merriam), [1]+181-200 pp., 5 pl. (Also in A1.1:892, p. 181.)
- 893 1893 (Merriam), iii+227-234 pp., 1 map. (Also in A1.1:893, p. 227.)
- 1894 (Merriam). (In A1.1:894, p. 227.)
- 1895 (Merriam). (In A1.1:895, p. 175.)
- 896 1896 (Merriam), iii+23-25 pp. (Also in A1.1:896, p. 23.)
- DIVISION OF BIOLOGICAL SURVEY
- 897 1897 (Merriam), ii+15-20 pp. (Also in A1.1:897, p. 15.)
- ACTING CHIEF, DIVISION OF BIOLOGICAL SURVEY
- 898 1898 (Palmer), iii+37-42 pp. (Also in A1.1:898, p. 37.)
- 899 1899 (Palmer), iii+59-70 pp. (Also in A1.1:899, p. 59.)
- 900 1900 (Palmer), ii+35-48 pp. (Also in A1.1:900, p. 35.)
- 901 1901 (Palmer), iii+151-162 pp. (Also in A1.1:901, p. 151.)
- CHIEF OF BIOLOGICAL SURVEY
- 902 1902 (Merriam), iii+209-218 pp. (Also in A1.1:902, p. 209.)

A5.2: General publications

[Publications which originated in this division, but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of this division issued only as Congressional documents are noted in chronological order in the appendix to this work.]

A5.3: Bulletins

- 1 No. 1. English sparrow (*Passer domesticus*) in North America, especially in its relation to agriculture; by Walter B. Barrows. 1889. 405 pp. 1 map.
- 2 No. 2. Bird migration in Mississippi Valley, 1884 and 1885; by W. W. Cooke. Edited and revised by C. Hart Merriam. 1888. 313 pp. 1 map.

A5. BIOLOGICAL SURVEY—Continued**A5.3: Bulletins—Continued**

- 3 No. 3. Hawks and owls of U. S. in their relation to agriculture; by A. K. Fisher. 1893. 210 pp. 26 pl.
- 4 No. 4. Prairie ground squirrels, or spermophiles, of Mississippi Valley; by Vernon Bailey. 1893. 69 pp. 5 pl.
- 5 No. 5. Pocket gophers of U. S.; by Vernon Bailey. 1895. 47 pp. 2 pl.
- 6 No. 6. Common crow of U. S.; [articles] by Walter B. Barrows and E. A. Schwarz. 1895. 98 pp. 1 pl.
- 7 No. 7. Preliminary report on food of woodpeckers, by F. E. L. Beal; Tongues of woodpeckers, by F. A. Lucas. 1895. 44 pp. 4 pl.
- 8¹ No. 8. Jack rabbits of U. S.; by T. S. Palmer. 1896. 84 pp. 7 pl.
- 8² Same, revised ed. 1897. 88 pp. 7 pl.
- 9 No. 9. Cuckoos and shrikes in their relation to agriculture; Food of cuckoos, by F. E. L. Beal, [and] Food of shrikes, by Sylvester D. Judd. 1898. 26 pp. 1 pl.
- 10 No. 10. Life zones and crop zones of U. S.; by C. Hart Merriam. 1898. 79 pp. 1 map.
- 11 No. 11. Geographic distribution of cereals in North America; by C. S. Plumb. 1898. 24 pp. 1 map.
- 12¹ No. 12. Legislation for protection of birds other than game birds; by T. S. Palmer. 1900. 94 pp. 2 pl.
- 12² Same, revised ed., 1902. 143 pp. 4 pl.
- 13 No. 13. Food of bobolink, blackbirds, and grackles; by F. E. L. Beal. 1900. 77 pp. 1 pl.
- 14 No. 14. Laws regulating transportation and sale of game; by T. S. Palmer and H. W. Olds. 1900. 89 pp. 9 pl. 1 folder table.
- 15 No. 15. Relation of sparrows to agriculture; by Sylvester D. Judd. 1901. 98 pp. 4 pl.
- 16 No. 16. Digest of game laws for 1901; by T. S. Palmer and H. W. Olds. 1901. 152 pp. 8 pls. 2 folder tables.
- 17 No. 17. Birds of a Maryland farm, a local study of economic ornithology; by Sylvester D. Judd. 1902. 116 pp. 17 pl.

A5.3': Bulletins (separates)

[A few of the more important papers contained in the Bulletins have been issued separately. References to *all* the papers will be found under their proper headings in the index to this work.]

A5.4: Circulars

- 1¹ No. 1. On food habits of birds. Out of print.*
- 1² Same, 2d edition. Oct. 12, 1886. n. t. p. [3] pp.
- 2 No. 2. On English sparrow. July 20, 1886. (Circ.)
- 3 No. 3. On economic relations of mammals. July 27, 1886. n. t. p. [3] pp.
- 4 No. 4. [Leaflet relating to collection of birds' stomachs. Nov., 1886.] (Circ.)
- 5 No. 5. To rice growers. n. d. (Circ.)
- 6¹ No. 6. Acknowledgment of receipt of schedule on English sparrow. Out of print.*
- 6² Same, 2d edition. n. d. (Circ.)
- 7 No. 7. To postmasters in relation to English sparrow. Nov. 8, 1886. (Circ.)
- 8 No. 8. On geographical distribution and migration of North American birds for 1887. Feb. 23, 1887. n. t. p. [4] pp.
- 9 No. 9. On gophers. July 30, 1888. (Circ.)
- 10 No. 10. On killdeer plover. Jan. 15, 1889. (Circ.)
- 11 No. 11. Brief directions for measurement of small mammals, and preparation of museum skins; by C. Hart Merriam. 1889. 4 pp. 1 pl.
- 12 No. 12. Directions for collecting the stomachs of birds. Apr. 25, 1891. n. t. p. [3] pp.
- 13 No. 13. [For acknowledging receipt of North American Fauna.] n. d. (Circ.)
- 14¹ No. 14. [For acknowledging receipt of North American Fauna 7.] n. d. (Circ.)
- 14² Same. [North American Fauna 8.] n. d. (Circ.)

* No copy found.

Tables

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tion no.

A5. BIOLOGICAL SURVEY—Continued

A5.4: Circulars—Continued

- 15 No. 15. [For acknowledging receipt of North American Fauna 10.] Jan. 1896. (Circ.)
- 16 No. 16. [For acknowledging receipt of North America Fauna 11.] July, 1896 (Circ.)
- 17¹ No. 17. Bird day in the schools. July 2, 1896. n. t. p. 4 pp.
- 17² Same, reprint with additions. n. t. p. 4 pp.
- 18 No. 18. [For acknowledging receipt of North American Fauna 12.] n. d. (Circ.)
- 19 No. 19. In relation to bounties on mammals and birds. n. d. (Circ.)
- 20 No. 20. Distribution and sale of publications. Oct. 20, 1896. n. t. p. 2 pp.
- 21 No. 21. Geographic distribution of North American cereals. Jan. 4, 1897. (Circ.)
- 22 No. 22. Geographic distribution of North American cereals. Mar. 1, 1897 (Circ.)
- 23 No. 23. [For acknowledging receipt of North American Fauna 13.] Oct., 1897. (Circ.)
- 24 No. 24. [For acknowledging receipt of North American Fauna 14.] May 1, 1899. (Circ.)
- 25 No. 25. [For acknowledging receipt of North American Fauna 15.] Aug 10, 1899. (Circ.)
- 26 No. 26. [For acknowledging receipt of North American Fauna 16.] Oct. 31, 1899. (Circ.)
- 27 No. 27. [For acknowledging receipt of North American Fauna 17.] May 31 [June 6], 1900. (Circ.)
- 28 No. 28. Directory of State officials and organizations concerned with protection of birds and game. July 10, 1900. n. t. p. 8 pp.
- 29 No. 29. Protection and importation of birds under act of Congress approved May 25, 1900. July 13, 1900. n. t. p. 6 pp.
- 30 No. 30. Wild animals and birds which may be imported without permits. Sept. 13, 1900. (Circ.)
- 31 No. 31. Information concerning game: Seasons, shipment, and sale; by T. S. Palmer and H. W. Olds. Oct. 25, 1900. n. t. p. 20 pp.
- 32¹ No. 32. Directions for destruction of prairie dogs; by C. Hart Merriam. Feb. 21, 1901. n. t. p. 2 pp.
- 32² Same, revised. Jan. 30, 1902. n. t. p. 2 pp.
- 33 No. 33. Protection of birds and game, directory of State officials and organizations for 1901; by T. S. Palmer. Apr. 18, 1901. n. t. p. 10 pp.
- 34 No. 34. Laws for protection of birds and game in District of Columbia; by T. S. Palmer. Oct. 25, 1901. n. t. p. 8 pp.
- 35 No. 35. Directory of State officials and organizations concerned with protection of birds and game, 1902; by T. S. Palmer. Apr. 15, 1902. n. t. p. 10 pp.
- 36 No. 36. Importation of reptiles into Hawaii, order for prevention of. [Amendment to circular no. 30] May 22, 1902. (Circ.)
- 37 No. 37. Regulations for importation of eggs of game birds for propagation. June 9, 1902. n. t. p. 2 pp.
- 38 No. 38. Interstate commerce in birds and game. Aug. 23, 1902. n. t. p. 3 pp.

A5.5: North American fauna

- 1 No. 1. Revision of North American pocket mice; by C. Hart Merriam. 1889. vii+36 pp. 4 pl.
- 2 No. 2. Descriptions of fourteen new species and one new genus of North American mammals; by C. Hart Merriam. 1889. v+52 pp. 8 pl.
- 3 No. 3. Results of a biological survey of San Francisco mountain region and desert of the Little Colorado, Arizona; [articles] by C. Hart Merriam and Leonhard Stejneger. 1890. vii+136 pp. 14 leaves 14 pl. 5 maps.
- 4 No. 4. Descriptions of twenty-six new species of North American mammals; by C. H. Merriam. 1890. v+60 pp. 3 pl. 1 table.

A5. BIOLOGICAL SURVEY—Continued

A5.5: North American fauna—Continued

- 5 No. 5. Results of a biological reconnaissance of south central Idaho; [articles] by C. H. Merriam and Leonhard Stejneger; Descriptions of new genus and two new species of North American mammals, by C. Hart Merriam. 1891. vii+128 pp. 4 pl.
- No. 6. Death Valley expedition, pt. 1. Not published.
- 7 No. 7. Death Valley expedition, a biological survey of parts of California, Nevada, Arizona, and Utah, pt. 2; [reports by] A. K. Fisher [and others]. 1893. 402 pp. 19 pl.
- 8 No. 8. Monographic revision of the pocket gophers, family Geomyidae, exclusive of species of Thomomys; by C. Hart Merriam. 1895. 258 pp. 23 pl.
- No. 9. Not published.
- 10 No. 10. Revision of shrews of American genera Blarina and Notiosorex, by C. Hart Merriam; Long-tailed shrews of eastern U. S., by Gerrit S. Miller, jr.; Synopsis of American shrews of genus Sorex, by C. Hart Merriam. 1895. 124 pp. 12 pl.
- 11 No. 11. Synopsis of weasels of North America; [by] C. Hart Merriam. 1896. 44 pp. 6 pl.
- 12 No. 12. Genera and subgenera of voles and lemmings; by Gerrit S. Miller, jr. 1896. 84 pp. 3 pl.
- 13 No. 13. Revision of North American bats of family Vespertilionidae; by Gerrit S. Miller, jr. 1897. 140 pp. 3 pl.
- 14 No. 14. Natural history of Tres Marias Islands, Mexico; General account of islands, with reports on mammals and birds, by E. W. Nelson; Reptiles, by Leonhard Stejneger; Crustacea, by Mary J. Rathbun; Plants, by J. N. Rose; Bibliography, by E. W. Nelson. 1899. 97 pp. 1 pl.
- 15 No. 15. Revision of jumping mice of genus Zapus; by Edward A. Preble. 1899. 42 pp. 1 pl.
- 16 No. 16. Results of biological survey of Mt. Shasta, Cal.; by C. Hart Merriam. 1899. 179 pp. 5 pl.
- 17 No. 17. Revision of American voles of genus Microtus; by Vernon Bailey. 1900. 88 pp. 5 pl.
- 18 No. 18. Revision of pocket mice of genus Perognathus; by Wilfred H. Osgood. 1900. 72 pp. 4 pl.
- 19 No. 19. Results of a biological reconnaissance of Yukon River region; General account of region [and] annotated list of mammals, by Wilfred H. Osgood; Annotated list of birds, [by] Louis B. Bishop. 1900. 100 pp. 7 pl.
- 20 No. 20. Revision of skunks of genus Chincha; by Arthur H. Howell. 1901. 62 pp. 8 pl.
- 21 No. 21. Natural history of Queen Charlotte Islands, British Columbia; natural history of Cook Inlet region, Alaska; by Wilfred H. Osgood. 1901. 87 pp. 7 pl.
- 22 No. 22. Biological investigation of Hudson Bay region; by Edward A. Preble. 1902. 140 pp. 14 pl.

A5.5a: North American fauna (separates)

[A few of the more important papers contained in the North American Fauna have been issued separately. References to all the papers will be found under their proper headings in the index to this work.]

A6. BOTANY DIVISION

[Merged into Bureau of Plant Industry, July 1, 1901, see A 19. For historical sketch of Division, see Yearbook 1897 (A1.10:897), p. 90.]

A6.1: Annual reports

- 1869 (Parry) (In A1.1:869, p. 91.)
- 1870 (Parry) (In A1.1:870, p. 108.)
- 1871 No report made.
- 1872 (Vasey) (In A1.1:872, p. 159.)
- 1873 No report made.
- 1874 (Vasey) (In A1.1:874, p. 156.)

Tables

Classification no.

A6. BOTANY DIVISION—(Continued)

A6.1: Annual reports—(Continued)

- 1875 No report made.
 1876 (Vasey) (In A1.1:876, p. 73.)
 1877 No report made.
 1878 [No regular annual report appears, but a "Report of the Botanist and Chemist on grasses and forage plants, by George Vasey and Peter Collier," appears in the Secretary's report for 1878, pp. 157-194. See A1.1:878].
 1879 (Vasey). (In A1.1:879, p. 349.)
 1880 (Vasey). (In A1.1:880, p. 375.)
 1881 and 1882 (Vasey). (In A1.1:881-2, p. 231.)
 1883 (Vasey). (In A1.1:883, p. 83.)
 1884 (Vasey). (In A1.1:884, p. 123.)
 1885 (Vasey). (In A1.1:885, p. 63.)
 886 1886 (Vasey), [1]+69-93 pp. 21 pls. (Also in A1.1:886, p. 69.)
 1887 (Vasey). (In A1.1:887, p. 301.)
 888 1888 (Vasey), [1]+305-324 pp. 13 pls. (Also in A1.1:888, p. 305.)
 889 1889 (Vasey), [1]+377-396 pp. 11 pls. (Also in A1.1:889, p. 377.)
 890 1890 (Vasey), [1]+375-392 pp. 8 pls. (Also in A1.1:890, p. 375.)
 891 1891 (Vasey), [1]+341-358 pp. 10 pls. (Also in A1.1:891, p. 341.)
 892 1892 (Vasey), [1]+201-214. 9 pls. (Also in A1.1:892, p. 201.)
 893 1893 (Coville), iii+235-244 pp. (Also in A1.1:893, p. 235.)
 894 1894 (Coville), iii+161-166 pp. (Also in A1.1:894, p. 161.)
 895 1895 (Coville), iii+159-164 pp. (Also in A1.1:895, p. 159.)
 896 1896 (Coville), iii+95-102 pp. (Also in A1.1:896, p. 95.)
 897 1897 (Coville), ii+167-172 pp. (Also in A1.1:897, p. 167.)
 898 1898 (Coville), iii+153-158 pp. (Also in A1.1:898, p. 153.)
 899 1899 (Coville), iii+53-57 pp. (Also in A1.1:899, p. 53.)
 900 1900 (Coville), iii+91-101 pp. (Also in A1.1:900, p. 91.)
 1901 (Coville). [This final report of the Division was made through the chief of the Bureau of Plant Industry, forming part of his annual report for 1901. (See A1.1:901, p. 62; also A19.1:901, p. 67.)]

A6.1a: Annual reports (separates)

[A few of the more important papers contained in the annual reports have been issued separately. References to all the papers will be found under their proper headings in the index to this work.]

A6.2: General publications

[Publications which originated in this Division but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the Index to this work. Publications of the Division issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

- B65 Botanical Exchange Club. Rules for Botanical Exchange Club; by George Vasey. n. d. (Circ.)
 G76 Grasses of U. S. Descriptive catalogue of grasses of U. S., including especially grass collections at New Orleans Exposition made by U. S. Department of Agriculture and State exhibits of grasses, with notes on such species as are more or less employed in agriculture or deserving of trial and cultivation; by Geo. Vasey. 1885. Washington, Gibson Bros. 1885. 110 pp.
 [Published as report of Agriculture Department at World's Industrial and Cotton Centennial. "Said to have been printed at Gibson Bros. to save expense. Paid for from Exposition funds."—(Written note on t. p. of copy in file of Agriculture Department, Publications Division.)]
 In7 Instructions to botanical collectors; by Geo. Vasey. n. d. (Circ.)
 N82¹ North American grasses. Illustrations of North American grasses, vol. 1. Grasses of the Southwest; plates and descriptions of grasses of desert region of western Texas, New Mexico, Arizona, and southern California; by Geo. Vasey. 1891. vii+[2]+7+[2] pp. 49 l. 50 pl. and 7+[2] pp. 49 l. 50 pl. Large 8°. (Reissue of Botany Bulletin no. 12. pts. 1, 2.)

A6. BOTANY DIVISION—Continued

Classification no.

A6.2: General publications—Continued

- N82² North American grasses. Grasses of the Pacific slope, including Alaska and adjacent islands; plates and descriptions of grasses of California, Oregon, Washington, and the northwestern coast, including Alaska; by Geo. Vasey. 1893. viii + [4] pp. 98 l. 100 pl. large 8°.
[Reissue of Botany Bulletin no. 13, pts. 1, 2.]
- P69 Plant breeding and seed selection; by Frederick V. Coville. June 22, 1898. n. t. p. 2 pp.

A6.3: Bulletins

- 1 No. 1. Investigation of grasses of arid districts of Kansas, Nebraska, and Colorado; by George Vasey. 1886. 19 pp. 13 pl.
- 2 No. 2. Fungus diseases of grape vine; by Frank Lamson-Scribner. 1886. 136 pp. 7 pl.
- 3 No. 3. Grasses of the South, report on certain grasses and forage plants for cultivation in South and Southwest; by George Vasey. 1887. 63 pp. 16 pl.
- 4 No. 4. Desiderata of herbarium for North America north of Mexico. Ranunculaceæ to Rosaceæ, inclusive; by Geo. Vasey.
(Distributed among botanists with the purpose of obtaining specimens.) 1887. 15 pp.
- 5 No. 5. Experiments made in 1887 in treatment of downy mildew and black-rot of grapevine with chapter on apparatus for applying remedies for these diseases; by F. Lamson-Scribner. 1888. 113 pp. 1 table.
- 6 [No. 6. Grasses of arid districts.] Investigation of grasses of arid districts of Texas, New Mexico, Arizona, Nevada, and Utah, in 1887. 1888. 61 pp. 30 pl.
[The Department and Division designation and the bulletin number and series titles as bracketed above appear only on the cover.]
- 7 No. 7. Black rot [of grape vine]; by F. Lamson-Scribner and Pierre Viala. 1888. 29 pp. 1 pl.
- 8 No. 8. Record of some work of division, including extracts from correspondence and other communications; [articles] prepared by George Vasey and B. T. Galloway. 1889. 67 pp.
- 9 No. 9. Peach yellows, a preliminary report; by Erwin F. Smith. 1888. 254 pp. 46 pl.
- 10 No. 10. Experiments made in 1888 in treatment of downy mildew and black rot of grape vine. 1889. 61 pp. 2 pl.
- 11 No. 11. Experiments made in 1889 in treatment of fungous diseases of plants; prepared by B. T. Galloway. 1890. 119 pp. 7 pl.
[Plates numbered to eight, but plate 1 is page 26.]
- 12¹ No. 12. Grasses of the Southwest; plates and descriptions of grasses of desert region of western Texas, New Mexico, Arizona, and southern California; by Geo. Vasey. Pt. 1, 1890. 7+[2] pp. 49 l. 50 pl. large 8°.
- 12² Same, pt. 2. 1891. 7+[4] pp. 49 l. 50 pl. large 8°. (Title-page and table of contents for vol. 1, Illustrations of North American Grasses, appended to this part.)
[Bulletin no. 12, pts. 1, 2, also issued as vol. 1, Illustrations of North American Grasses. See A6.2:N82¹.]
- 13¹ No. 13. Grasses of Pacific Slope, including Alaska and adjacent islands; plates and descriptions of grasses of California, Oregon, Washington, and the northwestern coast, including Alaska; by Geo. Vasey. Pt. 1. 1892. 7+[2] pp. 49 l. 50 pl. large 8°.
- 13² Same, pt. 2. 1893. 7+[2] pp. 49 l. 50 pl. large 8°. (Title-page and table of contents for vol. 2, Illustrations of North American Grasses, appended to this part.)
[Bulletin no. 13, pts. 1, 2, also issued as vol. 2, Illustrations of North American Grasses. See A6.2:N82¹.]
- 14 No. 14. Ilex cassine, aboriginal North American tea, its history, distribution, and use among native North American Indians; by E. M. Hale. 1891. 22 pp. 1 pl.

Tables

Classification no.

A6. BOTANY DIVISION—Continued

A6.3: Bulletins—Continued

- 15 No. 15. Russian thistle, its history as a weed in U. S., with an account of means available for its eradication; by Lyster Hoxie Dewey. 1894. 32 pp. 3 pl. 2 maps.
- 16¹ No. 16. American ginseng, its commercial history, protection, and cultivation; by George V. Nash. 1895. 22 pp.
- 16² Same, revised and extended by Maurice G. Kains. 1898. 32 pp.
- 16³ Same, [with prefatory note by Frederick V. Coville]. 1902. 32 pp.
- 17 No. 17. Legislation against weeds; by Lyster H. Dewey. 1896. 60 pp.
- 18 No. 18. Water hyacinth, and its relation to navigation in Florida; by Herbert J. Webber. 1897. 20 pp. 1 pl.
- 19 No. 19. Chicory growing as addition to resources of American farmer; by Maurice G. Kains. 1898. 52 pp.
- 20 No. 20. Principal poisonous plants of United States; by V. K. Chesnut. 1898. 60 pp.
- 21 No. 21. Vanilla culture, as practiced in Seychelles Islands; by S. J. Galbraith. 1898. 24 pp. 1 pl.
- 22 No. 22. Present status of rice culture in United States; by S. A. Knapp. 1899. 56 pp. 3 pl.
- 23 No. 23. Russian cereals adapted for cultivation in United States; by Mark Alfred Carleton. 1900. 42 pp. 2 pl.
- 24 No. 24. Germination of seeds as affected by certain chemical fertilizers; by Gilbert H. Hicks. 1900. 15 pp. 2 pl.
- 25 No. 25. Shade in coffee culture; by O. F. Cook. 1901. 79 pp. 16 pl.
- 26 No. 26. Stock-poisoning plants of Montana, preliminary report; by V. K. Chesnut and E. V. Wilcox. 1901. 150 pp. 37 pl.
Same, 56th Cong., 2d sess., S. doc. 160; serial no. 4039.
- 27 No. 27. Seeds of commercial saltbushes; by G. N. Collins. 1901. 28 pp. 8 pl.
- 28 No. 28. Chayote, a tropical vegetable; by O. F. Cook. 1901. 31 pp. 8 pl.
- 29 No. 29. Seed coats of certain species of genus Brassica; by A. J. Pieters and Vera K. Charles. 1901. 19 pp. 1 pl.

A6.4: Circulars

- 1 No. 1. Hungarian brome grass; by F. Lamson-Scribner. May 23, 1894. n. t. p. 4 pp.
- 2 No. 2. Nut grass; by L. H. Dewey. Oct. 16, 1894. n. t. p. 4 pp.
- 3¹ No. 3. Russian thistle; by L. H. Dewey. [Jan. 4, 1895.] n. t. p. 8 pp.
- 3² Same, rev. ed. Nov. 20, 1895. n. t. p. 8 pp.
- 4 No. 4. Flat pea; by F. Lamson-Scribner. Feb. 27, 1895. n. t. p. 7 pp.
- 5 No. 5. Giant knotweed, or sachaline; by F. Lamson-Scribner. Feb. 26, 1895. n. t. p. 4 pp.
- 6 No. 6. Standards of the purity and vitality of agricultural seeds; by Gilbert H. Hicks. May 9, 1896. n. t. p. 4 pp.
- 7¹ No. 7. Tumbling mustard, by Lyster H. Dewey. June 5, 1896. n. t. p. 8 pp.
- 7² Same, 2d ed. June 5, 1896. n. t. p. 8 pp.
- 8 No. 8. Crimson clover hair balls; by Frederick V. Coville. June 15, 1896. n. t. p. 4 pp.
- 9¹ No. 9. Wild garlic; by Lyster H. Dewey. Feb. 15, 1897. n. t. p. 8 pp.
- 9² Same, revised. June 2, 1900. n. t. p. 8 pp.
- 10 No. 10. Three new weeds of mustard family; by Lyster H. Dewey. Apr. 30, 1897. n. t. p. 6 pp.
- 11 No. 11. Vitality of seed treated with carbon bisulphid; by Gilbert H. Hicks and John C. Dabney. n. d. n. t. p. 5 pp.
- 12¹ No. 12. Camphor tree; by Lyster H. Dewey. Aug. 12, 1897. n. t. p. 7 pp.
- 12² Same, revised. Sept. 21, 1897. n. t. p. 8 pp.
- 13¹ No. 13. Observations on recent cases of mushroom poisoning in District of Columbia; by Frederick V. Coville. Dec. 1, 1897. n. t. p. 21 pp.
- 13² Same, rev. ed. Jan. 4, 1898. n. t. p. 24 pp.
- 13³ Same, 3d ed. May 15, 1899. n. t. p. 24 pp.

A6. BOTANY DIVISION—Continued**A6.4: Circulars—Continued**

- 14 No. 14. Didders infesting clover and alfalfa; by Lyster H. Dewey. Apr. 25, 1898. n. t. p. 7 pp.
- 15 No. 15. Horse-radish; by M. G. Kains. May 20, 1898. n. t. p. 8 pp.
- 16 No. 16. Section of seed and plant introduction; by O. F. Cook. Jan. 25, 1899. n. t. p. 6 pp.
- 17 No. 17. Notes on plant products of Philippine Islands; by Frank H. Hitchcock. May 15, 1899. n. t. p. 8 pp.
- 18¹ No. 18. Crimson clover seed; by A. J. Pieters. Aug. 5, 1899. n. t. p. 4 pp.
- 18² Same, revised. July 20, 1900. n. t. p. 7 pp.
- 19 No. 19. Hop cultivation in Bohemia; by David G. Fairchild. Oct. 10, 1899. n. t. p. 6 pp.
- 20 No. 20. Horse-radish culture in Bohemia; by David G. Fairchild. Dec. 15, 1899. n. t. p. 3 pp.
- 21 No. 21. Yams in West Indies; by David G. Fairchild. Dec. 6, 1899. n. t. p. 4 pp.
- 22 No. 22. Bur, or globe, artichokes; by Walter T. Swingle and David G. Fairchild. Dec. 11, 1899. n. t. p. 6 pp.
- 23 No. 23. Lebbek or siris tree; by David G. Fairchild. Feb. 3, 1900. n. t. p. 4 pp.
- 24 No. 24. Red clover seed; by Adrian J. Pieters. Mar. 6, 1900. n. t. p. 5 pp.
- 25 No. 25. Seed of beardless brome grass; by A. J. Pieters. Mar. 10, 1900. n. t. p. 5 pp.
- 26 No. 26. Egyptian cotton in U. S.; by Lyster H. Dewey. Mar. 16, 1900. n. t. p. 9 pp.
- 27¹ No. 27. Canada thistle; by Lyster H. Dewey. May 15, 1900. n. t. p. 14 pp.
- 27² Same, revised. 1901. n. t. p. 14 pp.
- 28 No. 28. Rubber cultivation for Porto Rico; by O. F. Cook. June 22, 1900. n. t. p. 12 pp.
- 29 No. 29. Chicory growing; by Maurice G. Kains. Oct. 30, 1900. n. t. p. 12 pp.
- 30¹ No. 30. List of publications of Division of Botany; by Frederick V. Coville. May 17, 1901. n. t. p. 10 pp.
- 30² Same, revised edition, Dec. 29, 1902. n. t. p. 12 pp.

A6.5: Contributions from U. S. national herbarium

[The U. S. National Herbarium, founded by the Smithsonian Institution, was transferred to the Agriculture Department in 1868, and returned to the custody of the Smithsonian Institution, July 1, 1896. The Agriculture Department, however, continued to publish this series of botanical reports until July 1, 1902, when, in pursuance of an act of Congress, the National Museum assumed the responsibility of the publication.]

- 1 V. 1. Reports on collections and miscellaneous papers. 1890–1895.
Contents:
- No. 1. List of plants collected by Edward Palmer in 1888 in South Carolina, by George Vasey and J. N. Rose; List of plants collected by Edward Palmer at Lagoon Head, Cedros Island, San Benito Island, Guadalupe Island, Head of Gulf of California, by George Vasey and J. N. Rose. 1890. vii+28 pp.
- No. 2. Collection of plants made by G. C. Nealley in region of Rio Grande in Texas, from Brazos Santiago to El Paso County; by John M. Coulter. 1890. iii+29–65 pp.
- No. 3. List of plants collected by Edward Palmer in 1890 in Lower California and western Mexico, at La Paz, San Pedro, Martin Island, Raza Island, Santa Rosalia, and Santa Agueda, Guaymas; by George Vasey and J. N. Rose. 1890. vi+63–90 pp. 1 pl.
- No. 4. List of plants collected by Edward Palmer in 1890 in western Mexico and Arizona, at Alamos and [in] Arizona; by J. N. Rose. 1891. vii+91–127 pp. 10 pl.
- No. 5. List of plants collected by Edward Palmer in 1890 on Carmen Island, by J. N. Rose; List of plants collected by U. S. S. Albatross in 1887–91 along western coast of America, [articles] by J. N. Rose, D. C. Eaton, J. W. Eckfeldt, and A. W. Evans; Revision of North American species of Hoffmannseggia, by E. M. Fisher; Systematic and alphabetic index of new species of North American phanerogams and pteridophytes, published in 1891, by Josephine A. Clark. 1892. x+129–188 pp. 5 pl.
- No. 6. List of plants collected by C. S. Sheldon and M. A. Carleton in Indian Territory in 1891, by J. M. Holzinger; Observations on native plants of Oklahoma Territory and adjacent districts, by M. A. Carleton. 1892. ix+189–232 pp. 2 pl.
- No. 7. Systematic and alphabetic index to new species of North American phanerogams and pteridophytes published in 1892; by Josephine A. Clark. 1893. iii+233–264+iii pp.

Tables

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no.

A6. BOTANY DIVISION—Continued

A6.5: Contributions from U. S. national herbarium—Continued

- 1 V. 1. Reports on collections and miscellaneous papers—Continued
Contents—Continued
No. 8. Notes on some Pacific coast grasses, by George Vasey; Descriptions of new or noteworthy grasses from U. S., by George Vasey; Descriptions of new grasses from Mexico, by George Vasey; Descriptions of new plants from Texas and Colorado, by J. M. Holzinger; List of plants new to Florida, by J. M. Holzinger; Descriptions of three new plants, by J. N. Rose; List of lichens from California and Mexico, collected by Edward Palmer from 1888 to 1892, by J. W. Eckfeldt. 1893. iii+265-292+ii pp. 5 pl.
No. 9. Report on collection of plants made in States of Sonora and Colima, Mexico, by Edward Palmer, in 1890 and 1891; by J. N. Rose. 1895. v+293-434 pp. 13 pl. [Title page and tables of contents and illustrations for volume 1, appended to this number. viii pp.]
- 2 V. 2. Botany of western Texas, a manual of phanerogams and pteridophytes of western Texas; by John M. Coulter. 1891-94.
Contents:
No. 1. Manual of phanerogams and pteridophytes of western Texas; Polypetalæ, by John M. Coulter. 1891. v+152+iv pp. 1 pl.
No. 2. Same, Gamopetalæ; by John M. Coulter. 1892. x+153-345 pp. 2 pl.
No. 3. Same, Apetalæ, Monocotyledonæ, Pteridophyta, by John M. Coulter. 1894. v+347-588 pp. (1 sheet following p. 430.) [Title page and table of contents for volume, issued with this part. v pp.]
[Volume 2 was reprinted by the Smithsonian Institution, 1902, under title "Botany of western Texas."]
- 3 V. 3. Reports on collections, revisions of groups, and miscellaneous papers. 1892-1896.
Contents:
No. 1. Monograph of grasses of U. S. and British America; by George Vasey. 1892. xiv+89 pp.
No. 2. Preliminary revision of North American species of cactus, anhalonium, and lophophora; by John M. Coulter. 1894. iii+91-132+ii pp.
No. 3. Flora of sand hills of Nebraska; by P. A. Rydberg. 1895. v+133-263 pp. 2 pl.
No. 4. Report on collection of plants made by J. H. Sandberg and assistants in northern Idaho in 1892; by John M. Holzinger. 1895. v+205-287+v pp. 2 pl.
No. 5. Report on Mexican umbelliferae, mostly from State of Oaxaca, recently collected by C. G. Pringle and E. W. Nelson, by John M. Coulter and J. N. Rose; Descriptions on plants, mostly new, from Mexico and U. S., by J. N. Rose. 1895. v+289-323+ii pp. 12 pl.
No. 6. Botany of Yakutat Bay, Alaska, by Frederick Vernon Coville; with field report, by Frederick Funston. 1895. iii+325-353+ii pp.
No. 7. Preliminary revision of North American species of echinocactus, cereus, and opuntia; by John M. Coulter. 1896. iii+355-462+iv pp.
No. 8. Flora of Black Hills of South Dakota; by P. A. Rydberg. 1896. v+463-536+iv pp. 4 pl.
No. 9. Flora of southwestern Kansas, report on collection of plants made by C. H. Thompson in 1893, by A. S. Hitchcock; Crepis occidentalis, and its allies, by Frederick V. Coville; Plants from Big Horn Mountains of Wyoming, by J. N. Rose; Leibergia, a new genus of umbelliferae from Columbia River region, by John M. Coulter and J. N. Rose; Roseanthus, a new genus of cucurbitaceae from Acapulco, Mexico, by Alfred Cogniaux. 1896. v+537-612 pp. 8 pl. [Title page and table of contents for volume issued with this part. vii pp.]
- 4 V. 4. Botany of Death Valley expedition; Report on botany of expedition sent out in 1891 by U. S. Department of Agriculture to make biological survey of region of Death Valley, California, by Frederick Vernon Coville. 1893. viii+363 pp. 22 pl. 1 map.
- 5 V. 5. Systematic, economic, and ecological investigations. 1897-1901.
Contents:
No. 1. General report on botanical survey of Cœur d'Alene Mountains in Idaho during summer of 1895; by John B. Leiberg. 1897. v+85 pp. 1 pl.
No. 2. Plants used by Klamath Indians of Oregon; by Frederick V. Coville. 1897. v+87-108+ii pp.
No. 3. Studies of Mexican and Central American plants; by J. N. Rose. 1897. vii+109-144+1 pp. 16 pl.
No. 4. Studies of Mexican and Central American plants—No. 2; by J. N. Rose; Two new species of plants from northwestern U. S., by L. F. Henderson; Hesperigenia, a new genus of umbelliferae from Mount Rainier, by J. M. Coulter and J. N. Rose; Three new species of tradescantia from U. S., by J. N. Rose; Treleasea, a new genus of commelinaceae, by J. N. Rose; Notes on useful plants of Mexico, by J. N. Rose. 1-99. viii+145-259+viiii pp. 47 pl.
No. 5. Plant covering of Ocracoke Island, a study in the ecology of the North Carolina strand of vegetation; by Thomas H. Kearney, jr. 1900. iv+261-319 pp.
No. 6. Report on botanical survey of Dismal Swamp region; by Thomas H. Kearney. 1901. x+321-585+x pp. 12 pl. 2 maps. [Title page and table of contents for volume, issued with this part. x pp.]

Classification
no.**A6. BOTANY DIVISION—Continued****A6.5: Contributions from U. S. national herbarium—Continued**

- 6 V. 6. Plant life of Alabama; distribution, modes of association, and adaptations of flora of Alabama, with systematic catalogue of plants growing in State; prepared in cooperation with Geological Survey of Alabama; by Charles Mohr. 1901. 921 pp. 13 pl.
- 7 V. 7. Systematic and geographic botany, and aboriginal uses of plants. 1900–1902.
- Contents:
No. 1. Monograph of North American umbelliferae; by John M. Coulter and J. N. Rose. 1900. 256+vii pp. 9 pl.
No. 2. Origin and distribution of Cocoa palm; by O. F. Cook. 1901. v+257–293 pp.
No. 3. Plants used by Indians of Mendocino County, California; by V. K. Chesnut. 1902. vi+295–408+vii pp. pl. 10–21. [Title page and contents for volume, 1900–1902. pp. 1–8, 409–422.]

A6.5/: Contributions from U. S. national herbarium (separates)

[A few of the more important papers contained in the various numbers of this series are issued separately in pamphlet form. References to all the papers contained in this series will be found under the proper headings in the index to this work.]

A6.6: Inventories

- 1 No. 1. Foreign seeds and plants imported by section of seed and plant introduction, numbers 1–1000. n. d. 81 pp.
- 2 No. 2. Foreign seeds and plants imported by section of seed and plant introduction, numbers 1001–1900. [July 5, 1899.] 94 pp.
- 3 No. 3. Seeds of saccharine sorghums distributed by section of seed and plant introduction. [Ap. 10, 1899.] 14 pp.
- 4 No. 4. Cereals and forage plants collected in Russia by M. A. Carleton for section of seed and plant introduction. [Ap. 15, 1899.] 9 pp.
- 5 No. 5. Foreign seeds and plants imported by Department of Agriculture and for distribution through the section of seed and plant introduction. Numbers 1901–2700. Nov. 3, 1899. 62 pp.
- 6 No. 6. Foreign seeds and plants collected in Austria, Italy, and Egypt by Barbour Lathrop and David G. Fairchild for section of seed and plant introduction. [Jan. 30, 1900.] 15 pp.
- 7 No. 7. Foreign seeds and plants imported by Department of Agriculture; numbers 2701–3400. Aug. 18, 1900. 86 pp.
- 8 No. 8. Seeds and plants imported for distribution in coöperation with agricultural experiment stations; numbers 3401–4350. Jan. 1, 1901. 106 pp.

A7. CHEMISTRY BUREAU

[Formerly Chemistry Division; changed to Bureau July 1, 1901. For historical sketch of Division, see Yearbook 1897 (A1.10:897), p. 76.]

A7.1: Annual reports

- 1862 (Wetherill). (In A1.1:862, p. 508.)
- 1863 no report printed.
- 1864 (Erni). (In A1.1:864, p. 514.)
- 1865 (Erni). (In A1.1:865, p. 46.)
- 1866 (Antisell). (In A1.1:866, p. 45.)
- 1867 (Antisell). (In A1.1:867, p. 31.)
- 1868 (Antisell). (In A1.1:868, p. 59.)
- 1869 (Antisell). (In A1.1:869, p. 65.)
- 1870 (Antisell). (In A1.1:870, p. 91.)
- 1871 (Brown). (In A1.1:871, p. 89.)
- 1872 (Brown). (In A1.1:872, p. 138.)
- 1873 (McMurtrie). (In A1.1:873, p. 170.)
- 1874 (McMurtrie). (In A1.1:874, p. 147.)
- 1875 (McMurtrie). (In A1.1:875, p. 141.)
- 1876 (McMurtrie). (In A1.1:876, p. 46.)
- 1877 (McMurtrie). (In A1.1:877, p. 65.)
- 1878 (Collier). (In A1.1:878, p. 95.)
- 1879 (Collier). (In A1.1:879, p. 35.)

Tables

Classification
no.

A7. CHEMISTRY BUREAU—Continued

A7.1: Annual reports—Continued

- 1880 (Collier). (In A1.1:880, p. 37.)
 1881 and 1882 (Collier). (In A1.1:881-2, p. 379.)
 1883 (Richardson). (In A1.1:883, p. 197.)
 1884 (Wiley). (In A1.1:884, p. 19.)
 1885 (Wiley). (In A1.1:885, p. 109.)
 1886 (Wiley). (In A1.1:886, p. 277.)
 1887 (Wiley). (In A1.1:887, p. 181.)
 1888 (Wiley). (In A1.1:888, p. 221.)
 889 1889 (Wiley), [1]+135-190 pp. (Also in A1.1:889, p. 135.)
 890 1890 (Wiley), iii+133-192 pp. (Also in A1.1:890, p. 133.)
 891 1891 (Wiley), [3]+143-190 pp. (Also in A1.1:891, p. 143.)
 892 1892 (Wiley), iii+123-152 pp. (Also in A1.1:892, p. 123.)
 893 1893 (Wiley), iv+169-198 pp. (Also in A1.1:893, p. 169.)
 1894 (Wiley). (In A1.1:894, p. 151.)
 1895 (Wiley). (In A1.1:895, p. 145.)
 896 1896 (Wiley), iii+9-14 pp. (Also in A1.1:896, p. 9.)
 897 1897 (Wiley), ii+5 pp. (Also in A1.1:897, p. 1.)
 898 1898 (Wiley), iii+7-15 pp. (Also in A1.1:898, p. 7.)
 899 1899 (Wiley), iii+25-42 pp. (Also in A1.1:899, p. 25.)
 900 1900 (Wiley), ii+17-26 pp. (Also in A1.1:900, p. 17.)
 901 1901 (Wiley), ii+95-111 pp. (Also in A1.1:901, p. 95.)
 902 1902 (Wiley), ii+137-154 pp. (Also in A1.1:902, p. 137.)

A7.2: General publications

[Publications which originated in this Bureau, but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of this Bureau, issued only as Congressional documents, are noted in chronological order in the Appendix to this work.]

- Beet sugar industry. *See* A1.2: B39.
 Oi5 Oils and fats. Methods for analysis of edible oils and fats, not including dairy products; by L. M. Tolman. [1901.] n. t. p. 15 pp.
 P96¹ Publications of Division of Chemistry. Dec. 20, 1899. n. t. p. 4 pp.
 P96² Same. May 1, 1901. n. t. p. 4 pp.
 P96³ Same. Aug. 1, 1902. n. t. p. 6 pp.

A7.3: Bulletins

- 1 No. 1. Investigation of composition of American wheat and corn; [by] Clifford Richardson. 1883. 69 pp. 1 folded table.
 [For errata to this Bulletin, *see* A7.3:4, p. 98.]
- 2 No. 2. Diffusion, its application to sugar cane and record of experiments with sorghum in 1883; [by] H. W. Wiley. 1884. 36 pp. 2 pl.
- 3 No. 3. Northern sugar industry; a record of its progress during season of 1883; [by] H. W. Wiley. 1884. 118+2 pp. 4 pl. 11 charts.
- 4 No. 4. Investigation of composition of American wheat and corn, 2d report; [by] Clifford Richardson. 1884. 98 pp.
 [Errata to Bulletin No. 1 on page 98.]
- 5 No. 5. Sugar industry of United States, cane sugar, beet sugar, sorghum sugar, maple sugar; by Harvey W. Wiley. 1885. 224 pp. 16 pl. 1 map.
- 6 No. 6. Experiments with diffusion and carbonatation at Ottawa, Kansas, campaign of 1885; by Harvey W. Wiley. 1885. 20 pp.
- 7 No. 7. Methods of analysis of commercial fertilizers; proceedings [2d annual convention] Association of Official Agricultural Chemists, Sept. 1, 2, 1885 [edited by Chas. W. Dabney, jr.]. 1885. 49 pp.
- 8 No. 8. Methods and machinery for application of diffusion to extraction of sugar from sugar cane and sorghum, and for use of lime and carbonic and sulphurous acids in purifying the diffusion juices; [by] Harvey W. Wiley. 1886. 85 pp. 22 pl.
- 9 No. 9. Third report on chemical composition and physical properties of American cereals, wheat, oats, barley, and rye; by Clifford Richardson. 1886. 82 pp.

A7.3: Bulletins—Continued

- 10 No. 10. Principles and methods of soil analysis; [by] Edgar Richards. 1886. 66 pp.
- 11 No. 11. Experiments in manufacture of sugar at Magnolia Station, Lawrence, La., season of 1885-6. 2d report; by Guilford L. Spencer. 1886. 26 pp. 1 pl.
- 12 No. 12. Methods of analysis of commercial fertilizers; proceedings 3d annual convention of Association of Official Agricultural Chemists, Aug. 26, 27, 1886. 1886. 59 pp.
- 13¹ No. 13. Foods and food adulterants; pt. 1. Dairy products. 1887. 128+iv pp. 12 pl.
- 13² Same, pt. 2. Spices and condiments; by Clifford Richardson. 1887. [1]+129-259 pp. 16 pl.
- 13³ Same, pt. 3. Fermented alcoholic beverages, malt liquors, wine, and cider; by C. A. Crampton. 1887. [1]+261-399 pp.
- 13⁴ Same, pt. 4. Lard and lard adulterations; by H. W. Wiley. 1889. [1]+403-554 pp. 10 pl.
- 13⁵ Same, pt. 5. Baking powders; by C. A. Crampton. 1889. [1]+557-627 pp.
- 13⁶ Same, pt. 6. Sugar, molasses and sirup, confections, honey, and beeswax, made under direction of H. W. Wiley, with collaboration of H. A. Huston, H. H. Nicholson, W. B. Rising, M. A. Scovell, S. P. Sharples, W. C. Stubbs, Shippen Wallace, F. G. Weichmann, H. A. Weber, and K. P. McElroy. 1892. [1]+631-874+ix pp.
- 13⁷ Same, pt. 7. Tea, coffee, and cocoa preparations; by Guilford L. Spencer with collaboration of Ervine E. Ewell. 1892. vii+875-1014+vi pp. 9 pl.
- 13⁸ Same, pt. 8. Canned vegetables; by K. P. McElroy with collaboration of W. D. Bigelow. 1893. vi+1015-1167+xii pp.
- 13⁹ Same, pt. 9. Cereals and cereal products made under direction of H. W. Wiley, with collaboration of K. P. McElroy, W. H. Krug, T. C. Trescot, W. D. Bigelow, and others. 1898. vii+1169-1374 pp. 7 pl.
- 13¹⁰ Same, pt. 10. Preserved meats; by W. D. Bigelow, with collaboration of Edward Mackay Chance, L. S. Munson, L. M. Tolman, and others. 1902. ix+1375-1517 pp.
- 14 No. 14. Experiments at Fort Scott, Kansas, in manufacture of sugar from sorghum and sugar canes in 1886; by H. W. Wiley. 1887. 64 pp.
- 15 No. 15. Experiments in manufacture of sugar at Magnolia Station, Lawrence, Louisiana, season of 1886-87; 3d rp., by Guilford L. Spencer. 1887. 35 pp.
- 16 No. 16. Methods of analysis of commercial fertilizers, feeding stuffs, and dairy products, adopted at 4th annual convention of Association of Official Agricultural Chemists, Aug. 16-18, 1887; edited by Clifford Richardson. 1887. 80 pp. 4 pl.
- 17 No. 17. Experiments in manufacture of sugar from sorghum and sugar canes at Fort Scott, Kansas, Rio Grande, N. J., and Lawrence, La. 1888. 118 pp. 6 pl.
- 18 No. 18. Sugar-producing plants; analyses made under direction of chemist; sorghum [at] Fort Scott, Kans., Rio Grande, N. J.; sugar cane [at] Magnolia Station] Lawrence, La.; with study of data collected on sorghum and sugar cane. 1888. 132 pp.
- 19 No. 19. Methods of analysis of commercial fertilizers, cattle foods, dairy products, sugar, and fermented liquors, adopted at fifth annual convention Association of Official Agricultural Chemists, held Aug. 9, 10, 1888; edited by Clifford Richardson. 1888. 96 pp.
- 20 No. 20. Record of experiments in manufacture of sugar from sorghum at Rio Grande, N. J.; Kenner, La.; Conway Springs, Douglass, and Sterling, Ks., 1888; by H. W. Wiley. 1889. 162 pp.
- 21 No. 21. Experiments in manufacture of sugar by diffusion at Magnolia Station, Lawrence, La., season of 1888-89; by Guilford L. Spencer. 1889. 67 pp.
- 22 No. 22. Record of experiments at Des Lignes sugar experiment station, Baldwin, La., season of 1888; by C. A. Crampton. 1889. 36 pp.

Tables

Classification no.

A7. CHEMISTRY BUREAU—Continued

A7.3: Bulletins—Continued

- 23 No. 23. Experiments at sugar experiment station on Calumet Plantation, Pattersonville, La., [1888]; by Hubert Edson. 1889. 42 pp.
- 24 No. 24. Proceedings 6th annual convention Association of Official Agricultural Chemists, Sept. 10-12, 1889, methods of analysis of commercial fertilizers, cattle foods, dairy products, and fermented liquors; edited by Harvey W. Wiley. 1890. 235 pp.
- 25 No. 25. Popular treatise on extent and character of food adulterations; by Alex. J. Wedderburn. 1890. 61 pp.
- 26 No. 26. Record of experiments in production of sugar from sorghum in 1889, at Cedar Falls, Iowa; Rio Grande, N. J.; Morrisville, Va.; Kenner, La.; College Station, Md.; and Conway Springs, Attica, Medicine Lodge, Ness City, Liberal, Arkalon, Meade, Minneola, and Sterling, Kans.; by H. W. Wiley. 1890. 112 pp. 1 folded table.
- 27 No. 27. Sugar-beet industry; culture of sugar beet and manufacture of beet sugar; by H. W. Wiley. 1890. 262 pp. 12 pl.
- 28 No. 28. Proceedings of 7th annual convention of Association of Official Agricultural Chemists, Aug. 28-30, 1890; methods of analysis of commercial fertilizers, foods, and feeding stuffs, dairy products, fermented liquors, and sugars; edited by Harvey W. Wiley. 1890. 238 pp.
- 29 No. 29. Record of experiments with sorghum in 1890; by Harvey W. Wiley. 1891. 125 pp. 1 folded table.
- 30 No. 30. Experiments with sugar beets in 1890; by Harvey W. Wiley. 1891. 93 pp.
- 31 No. 31. Proceedings of 8th annual convention of Association of Official Agricultural Chemists, Aug. 13-15, 1891; methods of analysis of commercial fertilizers, foods and feeding stuffs, dairy products, fermented liquors, and sugars; edited by Harvey W. Wiley. 1891. 253 pp.
- 32 No. 32. Special report on extent and character of food adulterations, including State and other laws relating to foods and beverages; by Alex. J. Wedderburn. 1892. 174 pp.
- 33 No. 33. Experiments with sugar beets in 1891; by Harvey W. Wiley, with collaboration of Walter Maxwell, W. A. Henry, and others. 1892. 158 pp.
- 34 No. 34. Record of experiments with sorghum in 1891; by Harvey W. Wiley, with collaboration of G. L. Spencer, A. A. Denton, and Wibray J. Thompson. 1892. 132 pp.
- 35 No. 35. Proceedings of 9th annual convention of Association of Official Agricultural Chemists, Aug. 25-27, 1892; edited by Harvey W. Wiley. 1892. vi+243+vii-xvii.
- 36 No. 36. Experiments with sugar beets in 1892; by Harvey W. Wiley, with collaboration of Walter Maxwell. 1893. 74 pp.
- 37 No. 37. Record of experiments with sorghum in 1892; by Harvey W. Wiley, with collaboration of A. A. Denton, Glen O'Brien, C. I. Hinman, Wibray J. Thompson, J. L. Fuelling, and Oma Carr. 1893. 100 pp.
- 38 No. 38. Proceedings of 10th annual convention of Association of Official Agricultural Chemists, Chicago, Ill., Aug. 24-26, 1893; edited by Harvey W. Wiley. 1893. vi+218+vii-xiv pp.
- 39 No. 39. Experiments with sugar beets in 1893; by Harvey W. Wiley, with collaboration of Walter Maxwell. 1894. 59 pp.
- 40 No. 40. Record of experiments with sorghum in 1893; by Harvey W. Wiley, with collaboration of Oma Carr and C. I. Hinman. 1894. 38 pp.
- 41 No. 41. Extent and character of food and drug adulteration; by Alex. J. Wedderburn. 1894. 64 pp.
- 42 No. 42. Compilation of pharmacy and drug laws of the several states and territories; by Alex. J. Wedderburn. 1894. 152 pp.
- 43 No. 43. Proceedings of 11th annual convention of Association of Official Agricultural Chemists, Aug. 23-25, 1894; edited by Harvey W. Wiley. 1894. 403 pp.

A7. CHEMISTRY BUREAU—Continued**A7.3: Bulletins**—Continued

- 44 No. 44. Sweet cassava; its culture, properties, and uses; by Harvey W. Wiley. 1894. 16 pp. 2 pl.
- 45 No. 45. Analyses of cereals collected at World's Columbian Exposition, and comparisons with other data; by Harvey W. Wiley. 1895. 57 pp.
- 46¹ No. 46. Methods of analysis adopted by Association of Official Agricultural Chemists, Sept. 5-7, 1895; edited by Harvey W. Wiley, with collaboration of L. L. Van Slyke and W. D. Bigelow. 1895. 84 pp.
See also A7.4:4.
- 46² No. 46, rev. ed. Methods of analysis adopted by Association of Official Agricultural Chemists, Nov. 11, 12, 14, 1898; edited by Harvey W. Wiley. 1899. 86 pp.
- 47 No. 47. Proceedings of 12th annual convention of Association of Official Agricultural Chemists, Sept. 5-7, 1895; edited by Harvey W. Wiley. 1895. 172 pp.
- 48 No. 48. Zinc in evaporated apples; by Harvey W. Wiley. 1896. 38 pp.
- 49¹ No. 49. Proceedings 13th annual convention Association of Official Agricultural Chemists, Nov. 6, 7, 9, 1896; edited by H. W. Wiley. 1897. 127 pp.
- 49² Same, [another print; letter of transmittal and list of illustrations omitted]. 127 pp.
See also A7.4:2 and A7.4:4.
- 50 No. 50. Composition of maize (Indian corn), including grain, meal, stalks, pith, fodder, and cobs; compiled by H. W. Wiley. 1898. 31 pp.
See also for French abstract of this Bull., A7.4:6.
- 51 No. 51. Proceedings of 14th annual convention of Association of Official Agricultural Chemists, Oct. 26-28, 1897; edited by Harvey W. Wiley. 1898. 169 pp.
See also A7.4:4.
- 52¹ No. 52. Experiments with sugar beets in 1897; by Harvey W. Wiley. 1898. 165 pp. 2 maps.
- 52² Same, revised. 1899. 165 pp. 2 maps.
- 53 No. 53. Chemical composition of carcasses of pigs; by Harvey W. Wiley, with collaboration of E. E. Ewell, W. H. Krug, T. C. Trescot, and others. 1898. 80 pp.
- 54 No. 54. Investigation of analytical methods for distinguishing between nitrogen of proteids and that of simpler amids or amido-acids, by J. W. Mallet; with chapter on Separation of flesh bases from proteid matters by means of bromin, by H. W. Wiley. 1898. 30 pp.
- 55 No. 55. Fertilizing value of street sweepings; by Ervin E. Ewell. 1898. 19 pp.
- 56 No. 56. Proceedings of 15th annual convention of Association of Official Agricultural Chemists, Washington, D. C., Nov. 11, 12, 14, 1898; edited by Harvey W. Wiley. 1899. 140 pp.
- 57 No. 57. Proceedings of 16th annual convention of Association of Official Agricultural Chemists, San Francisco, July 5-7, 1899; edited by Harvey W. Wiley. 1899. 130 pp.
- 58 No. 58. Manufacture of starch from potatoes and cassava; by Harvey W. Wiley. 1900. 48 pp. 8 pl.
- 59 No. 59. Composition of American wines; by W. D. Bigelow. 1900. 76 pp.
- 60 No. 60. Sunflower plant, its cultivation, composition and uses; by Harvey W. Wiley. 1901. 31 pp. 1 pl.
- 61 No. 61. Pure-food laws of European countries affecting American exports; by W. D. Bigelow. 1901. 39 pp.
- 62 No. 62. Proceedings of 17th annual convention Association of Official Agricultural Chemists, Washington, Nov. 16, 17, 19, 1900; edited by H. W. Wiley. 1901. 163 pp. 2 pl.
- 63 No. 63. Exhibit of Bureau at Pan-American Exposition, Buffalo, N. Y., 1901; by E. E. Ewell, W. D. Bigelow, and Logan Waller Page. 1901. 29 pp. 4 pl.
- 64 No. 64. Influence of environment upon composition of sugar beet; by Harvey W. Wiley. 1901. 32 pp.

TablesClassification
no.**A7. CHEMISTRY BUREAU—Continued****A7.3: Bulletins—Continued**

- 65 No. 65. Provisional methods for analysis of foods adopted by Association of Official Agricultural Chemists, Nov. 14-16, 1901; edited by H. W. Wiley, with collaboration of W. D. Bigelow. 1902. 169 pp.
- 66 No. 66. Fruits and fruit products, chemical and microscopical examination; [Pt. 1], by L. S. Munson [and] L. M. Tolman; [Pt. 2, by] Burton J. Howard. 1902. 114 pp. 12 pl.
- 67 No. 67. Proceedings of 18th annual convention of Association of Official Agricultural Chemists, held at Washington, D. C., Nov. 14-16, 1901; edited by Harvey W. Wiley. 1902. 184 pp. 1 por.
- 68 No. 68. Chemical composition of insecticides and fungicides, with an account of methods of analysis employed; by J. K. Haywood, in cooperation with Division of Entomology. 1902. 62 pp.
- 69¹ No. 69. Pt. 1. Foods and food control, [no.] 1; by W. D. Bigelow. 1902. vi+93 pp.
- 69² Same, Pt. 2, [no.] 2. 1902. vi+95-187 pp.
- 69³ Same, Pt. 3, [no.] 3. 1902. vi+189-272 pp.
- 69⁴ Same, Pt. 4, [no.] 4. 1902. vi+273-372 pp.
- 69⁵ Same, Pt. 5, [no.] 5. 1902. vi+373-461 pp.
- 70 No. 70. Manufacture of table sirups from sugar cane; by H. W. Wiley. 1902. 32 pp. 10 pl.

A7.3^a: Bulletins (separates)

[A few of the papers contained in the Bulletins were issued separately in pamphlet form. References to *all* the papers will be found under their proper headings in the index to this work.]

A7.4: Circulars

- 1 No. 1. Manufacture of sorghum sirup; by G. L. Spencer. July 15, 1894. n. t. p. 3 pp.
- 2 No. 2. Changes in and additions to methods of analysis adopted at 13th annual meeting of Association of Official Agricultural Chemists. Dec. 12, 1896. n. t. p. 6 pp.
- 3¹ No. 3. Needed reforms in fertilizer inspection; by H. J. Wheeler, H. P. Armsby, C. D. Woods, H. W. Wiley. July 8, 1897. n. t. p. 3 pp.
- 3² Same, revised. n. d. n. t. p. 4 pp.
- 3³ Same, 2d rev. ed. Mar. 20, 1902. n. t. p. 4 pp.
- 4 No. 4 (to accompany bulletin 46). Changes in and additions to methods of analysis adopted at 13th and 14th annual meetings Association of Official Agricultural Chemists. Dec. 11, 1897. n. t. p. 10 pp.
- 5 No. 5. Chemical examination of canned meats; by H. W. Wiley. Jan. 18, 1899. n. t. p. 7 pp.
- 6 No. 6. Composition chimique du maïs et de ses produits; par M. H. W. Wiley. June 22, 1900. (French abstract of Chem. Bull. 50, Composition of maize; by H. W. Wiley.) July 21, 1900. 13 pp.
- 7¹ No. 7. Outline of work on foods and feeding stuffs for 1901; by William H. Krug. Apr. 29, 1901. n. t. p. 3 pp.
- 7² Same, revised ed. Apr. 18, 1902. (Title changed to "Amended methods adopted at 18th annual convention of Association of Official Agricultural Chemists.") n. t. p. 3 pp.
- 8¹ No. 8. Official method for analysis of tanning materials. Nov. 19, 1901. n. t. p. 2 pp.
- 8² Same, Dec. 18, 1902. n. t. p. 2 pp.
- 9 No. 9. Plan for cooperating in study of available plant food; by C. C. Moore. Jan. 3, 1902. n. t. p. 8 pp.
- 10 No. 10. Methods for analysis of insecticides and fungicides; by J. K. Haywood. Mar. 7, 1902. n. t. p. 8 pp.

AS. ENTOMOLOGICAL COMMISSION

[Formerly under Interior Department, *see* I 26.]

AS.1: Annual reports

- 1st annual report on Rocky Mountain locust. Issued as a publication of the Geological and Geographical Survey of the Territories (Hayden). *See* I26.1:1.

AS. ENTOMOLOGICAL COMMISSION—Continued

AS.1: Annual reports—Continued

- 2d report on Rocky Mountain locust and Western cricket. Issued as a publication of the Interior Department, the report being made direct to the Secretary.
See I26.1:2.
- 3 3d report of U. S. Entomological Commission relating to Rocky Mountain locust, Western cricket, Army worm, canker worms, and Hessian fly, with descriptions of larvæ of injurious forest insects, studies of embryological development of locust and of other insects, and on systematic position of orthoptera in relation to other orders of insects. 1883. xiv+347+12+92 pp. 63 pl. 4 maps.
Same, 47th Cong., 2d sess., H. mis. doc. 44; serial no. 2154.
- 4 4th report of U. S. Entomological Commission, being revised edition of Bulletin no. 3 and final report on cotton worm and boll worm; by Charles V. Riley. 1885. xxxviii+399+147 pp. 64 pl. 2 maps.
Same, 48th Cong., 2d sess., H. mis. doc. 39; serial no. 2325.
- 5 5th report of U. S. Entomological Commission, being revised and enlarged edition of Bulletin no. 7 on insects injurious to forest and shade trees; by Alpheus S. Packard. 1890. viii+957 pp. 40 pl.
Same, 51st Cong., 1st sess., H. mis. doc. 269; serial no. 2800.
[Discontinued.]

AS.2: General publications

None issued.

AS.3: Bulletins

[Nos. 1 and 2 made under direction of U. S. Geological and Geographical Survey of the Territories (Hayden); Nos. 3-7 under direction of Interior Department. None issued under Agriculture Department].

See I26:3.

AS.4: Circulars

[None issued under Agriculture Department. Twelve circulars issued under Interior Department. *See* I26:4].

A9. ENTOMOLOGY DIVISION

[For historical sketch of Division, *see* Yearbook 1897 (A1.10:897), p. 84.]

A9.1: Annual reports

REPORT OF ENTOMOLOGIST

- 1863 (Glover). (In A1.1:863, p. 561.)
1864 (Glover). (In A1.1:864, p. 540.)
1865 (Glover). (In A1.1:865, p. 33.)
1866 (Glover). (In A1.1:866, p. 27.)
1867 (Glover). (In A1.1:867, p. 58.)
1868 (Glover). Title: Foods and habits of beetles. (In A1.1:868, p. 78.)
1869 (Glover). (In A1.1:869, p. 60.)

REPORT OF ENTOMOLOGIST AND CURATOR OF MUSEUM

- 1870 (Glover). (In A1.1:870, p. 65.)
1871 (Glover). (In A1.1:871, p. 69.)
1872 (Glover). (In A1.1:872, p. 112.)
1873 [Glover]. (In A1.1:873, p. 152.)
1874 (Glover). (In A1.1:874, p. 122.)

REPORT OF ENTOMOLOGIST

- 1875 (Glover). (In A1.1:875, p. 114.)

REPORT OF ENTOMOLOGIST AND CURATOR OF MUSEUM

- 1876 (Glover). (In A1.1:876, p. 17.)
1877 (Glover). (In A1.1:877, p. 89.)
1878 (none issued).

REPORT OF ENTOMOLOGIST

- 879 1879 (Riley), from June, 1878, to Mar. 1, 1879. 52+[1] pp. 7 pl. (Also in A1.1:878, p. 207.)
- 1880 (Comstock), submitted June 30, 1880. (In A1.1:879, p. 185.)
- 881 1881 (Comstock), submitted June 15, 1881. iv+235-373+iv pp. 24 pl. (Also in A1.1:880, p. 235.)

Tables

Classification no.

A9. ENTOMOLOGY DIVISION—Continued

A9.1: Annual reports—Continued

882	1882 (Riley), submitted June 30, 1882. viii+167 pp. 20 pl. (Also in A1.1:881-2, p. 61.) [Pages 1-154 bear also the paging of the Secretary's report "61-214."]
883	1883 (Riley), submitted July 31, 1883. v+99-180+5+[2] pp. 13 pl. (Also in A1.1:883, p. 99.)
884	1884 (Riley), submitted Nov. 3, 1884. vii+[1]+134+2+ix pp. 10 pl. (Also in A1.1:884, p. 285.) [Pages 1-134 bear also the paging of the Secretary's report "285-418."]
885	1885 (Riley), submitted Dec. 24, 1885. vii+[1]+137+vii+2 pp. 2 l. ix pl. 1 map. (Also in A1.1:885, p. 207.) [Pages 1-137 bear also the paging of the Secretary's report "207-343."]
886	1886 (Riley), [submitted] Dec. 24, 1886. v+459-592+ix pp. 11 pl. (Also in A1.1:886, p. 459.)
887	1887 (Riley), submitted Jan. 30, 1888. vi+48-179+vi pp. 8 pl. (Also in A1.1:887, p. 48.)
888	1888 (Riley), submitted Jan. 31, 1889. iv+53-144 pp. 12 pl. (Also in A1.1:888, p. 53.)
889	1889 (Riley), submitted Dec. 31, 1889. iv+331-361+iii pp. 6 pl. (Also in A1.1:889, p. 331.)
890	1890 (Riley), for calendar year. [1]+237-264 pp. 7 pl. (Also in A1.1:890, p. 237.)
891	1891 (Riley), for calendar year. iii+231-266+ii pp. (Also in A1.1:891, p. 231.)
892	1892 (Riley), calendar year. iii+153-180+ii pp. 12 pl. (Also in A1.1:892, p. 153.)
893	1893 (Riley), calendar year. iii+199-226+ii pp. 4 pl. (Also in A1.1:893, p. 199.)
	1894 (Howard), from June 30, 1893, to June 30, 1894. (In A1.1:894, p. 157.)
	1895 (Howard), fiscal year. (In A1.1:895, p. 153.)
896	1896 (Howard), fiscal year. iii+89-93 pp. (Also in A1.1:896, p. 89.)
897	1897 (Howard), fiscal year. ii+111-116 pp. (Also in A1.1:897, p. 111.)
898	1898 (Howard), fiscal year. iii+17-25 pp. (Also in A1.1:898, p. 17.)
899	1899 (Howard), fiscal year. iii+43-52 pp. (Also in A1.1:899, p. 43.)
900	1900 (Howard), fiscal year. iii+27-34 pp. (Also in A1.1:900, p. 27.)
901	1901 (Howard), fiscal year. ii+141-150 pp. (Also in A1.1:901, p. 141.)
902	1902 (Marlatt), fiscal year. iii+189-207 pp. (Also in A1.1:902, p. 189.)

A9.2: General publications

[Publications which originated in this Division, but which were published in a numbered series of the Secretary's Office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the Index to this work. Publications of the Division, issued only as Congressional documents, are noted in chronological order in the Appendix to this work.]

B47 ^{1 3}	Bibliography of more important contributions to American economic entomology; prepared by Samuel Henshaw. Pts. 1-3, more important writings of Benjamin Dann Walsh and Charles Valentine Riley. 1890. [1]+454 pp. Contents: Pt. 1. More important writings of Benjamin Dann Walsh. 1889. 50 pp. Pt. 2. More important joint writings of B. D. Walsh and C. V. Riley. 1889. pp. 51-96. Pt. 3. More important writings of Charles Valentine Riley. 1889. pp. 97-371. Index to Parts 1-3. 1890. pp. [1]+373-454. Same, 51st Cong., 1st sess., H. mis. doc. 133; serial no. 2768.
B47 ⁴	Same. Pt. 4. More important writings of Government and State entomologists, and of other contributors to literature of American Economic Entomology. A-K. 1895. 167 pp.
B47 ⁵	Same. Pt. 5. L-Z. 1896. 179 pp.
B47 ⁶	Same. Pt. 6. More important writings published between June 30, 1888, and Dec. 30, 1896; prepared by Nathan Banks. 1898. 273 pp.
B47 ⁷	Same. Pt. 7. More important writings published between Dec. 31, 1896, and Jan. 1, 1900; by Nathan Banks. 1901. 113 pp.
C82	Cotton insects. Report upon cotton insects; by J. Henry Comstock. 1879. v+511 pp. 3 pl.

Classifica-
tion no.

A9. ENTOMOLOGY DIVISION—Continued

A9.2: General publications—Continued

- N42 New Orleans Exposition. Catalogue of exhibit of economic entomology at New Orleans World's Industrial and Cotton Centennial Exposition, 1884-5. 1888. 95 pp.
- Or 1 Orange. Report on insects affecting the orange and other plants of citrus family, with practical suggestions for their control or extermination; by H. G. Hubbard. 1885. 227 pp. 14 pl.
Same, 48th Cong., 2d sess., H. mis. doc. 40; serial no. 2326.
- P41 [Periodical cicada, or seventeen-year locust; by C. V. Riley.] May, 1894. n. t. p. [3] pp. 4^o

A9.3: Bulletins (old series)

- 1¹ No. 1. Reports of experiments, chiefly with kerosene, upon insects injuriously affecting orange tree and cotton plant. 1883. 62 pp.
- 1² Same, 2d edition. 1883. 62 pp.
- 2¹ No. 2. Reports and observations on Rocky Mountain locust and chinch bug, with extracts from correspondence of the Division on miscellaneous insects. 1883. 36 pp.
- 2² Same, 2d edition. 1883. 36 pp.
- 3 No. 3. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist. 1883. 75 pp. 3 pl.
- 4 No. 4. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist, with extracts from correspondence on miscellaneous insects. 1884. 102 pp.
- 5 No. 5. Descriptions of North American chalcididae, from collections of Department of Agriculture and C. V. Riley, with biological notes. [1st paper], with list of described North American species of this family; by L. O. Howard. 1885. 47 pp.
- 6¹ No. 6. Imported elm leaf beetle; its habits and natural history, and means of counteracting its injuries. 1885. 20 pp. 1 pl.
- 6² Same, 2d ed. 1891. 21 pp. 1 pl.
- 7 No. 7. Pediculi and mallophaga affecting man and lower animals; by Herbert Osborn. 1891. 56 pp.
- 8¹ No. 8. Periodical cicada; an account of *Cicada septemdecim* and its tredecim race, with chronology of broods known; by Charles V. Riley.*
- 8² Same, 2d edition. 1885. 46 pp.
- 9¹ No. 9. Mulberry silk-worm; being a manual of instructions in silk culture; by C. V. Riley. 6th rev. ed. 1886. vii+65 pp. 2 pl.
- 9² Same, 7th rev. ed. 1888. vii+65 pp. 2 pl. [For editions 1 to 5, see A1.6:11.]
- 10 No. 10. Our shade trees and their insect defoliators, being a consideration of four most injurious species which affect trees of the Capital, with means of destroying them; by C. V. Riley. 1887. 69 pp.
- 11 No. 11. Reports of experiments with various insecticide substances, chiefly upon insects affecting garden crops. 1886. 34 pp.
- 12 No. 12. Miscellaneous notes on work of Division of Entomology for season of 1885. 1886. 46 pp. 1 pl.
- 13 No. 13. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist. 1887. 78 pp.
- 14 No. 14. Reports of observations and experiments in practical work of the Division. 1887. [Additional to no. 13.] 62 pp. 1 pl.
- 15 No. 15. *Icerya* or fluted scale, otherwise known as cottony cushion-scale. 1887. 40 pp.
- 16 No. 16. Entomological writings of Alpheus Spring Packard; by Samuel Henshaw. 1887. 49 pp.
- 17 No. 17. Chinch bug; general summary of its history, habits, enemies, and of remedies and preventives to be used against it; by L. O. Howard. 1888. [1]+48 pp.
- 18 No. 18. Life and entomological work of Townend Glover; by Charles Richards Dodge. 1888. 68 pp. 2 pl.
- 19 No. 19. Enumeration of published synopses, catalogues, and lists of North American insects, with other information intended to assist the student of American entomology. 1888. 77 pp.

* No copy found.

Tables

Classification no.

A9. ENTOMOLOGY DIVISION—Continued

A9.3: Bulletins (old series)—Continued

- 20 No. 20. Root-knot disease of peach, orange, and other plants in Florida, due to work of anguillula; by J. C. Neal. 1889. 31 pp. 21 pl.
- 21¹ No. 21. Report of trip to Australia to investigate natural enemies of fluted scale; by Albert Koebele. 1890. 32 pp.
- 21² Same, rev. ed. 1890. 32 pp.
- 22 No. 22. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist. 1890. 110 pp.
- 23 No. 23. Reports of observations and experiments in practical work of the Division, under direction of the Entomologist. 1891. 83 pp.
- 24 No. 24. Boll worm of cotton, report of progress in supplementary investigation of this insect; by F. W. Mally. 1891. 50 pp.
- 25 No. 25. Destructive locusts, a popular consideration of a few of the more injurious locusts (or "grasshoppers") of U. S., with best means of destroying them; by C. V. Riley. 1891. 62 pp. 12 pl. 1 map.
- 26 No. 26. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist. 1892. 95 pp.
- 27 No. 27. Reports on damage by destructive locusts during 1891. 1892. 64 pp.
- 28 No. 28. More destructive locusts of America north of Mexico; by Lawrence Bruner. 1893. 40 pp.
- 29 No. 29. Boll worm of cotton; by F. W. Mally. 1893. 73 pp. 2 pl.
- 30 No. 30. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist. 1893. 67 pp.
- 31 No. 31. Catalogue of exhibit of economic entomology at World's Columbian Exposition, Chicago, Ill., 1893. 1893. 121 pp.
- 32 No. 32. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist. 1894. 59 pp.
- 33 No. 33. Legislation against injurious insects, compilation of laws and regulations in United States and British Columbia; by L. O. Howard. 1895. 46 pp.

A9.4: Circulars (first series)

[NOTE.—This series is described as "a miscellaneous and indifferent series, hardly worthy to be entitled to the dignity of being considered publications." The whole number exceeded 40, nearly all being circular letters, and of which Nos. 1, 18, and 22 are the only ones known to exist.]

- 1 No. 1 c. [Relating to silk worm eggs.] n. d. (Circ.)
- 18 No. 18. [Establishment of branch of economic ornithology.] July 1, 1885. (Circ.)
- 22 No. 22. [Bee culture.] July 28, 1885. (Circ.)

A9.5: Circulars, second series

- 1 No. 1. Condensed information concerning some of the more important insecticides. May, 1891. 7 pp.
- 2¹ No. 2. Hop plant-louse, and the remedies to be used against it. June, 1891. 7 pp. 1 pl.
- 2² Same, [new ed. Aug. 1899.] 7 pp. 1 pl.
- 3 No. 3. Important enemy to fruit trees; San Jose scale, its appearance in Eastern U. S.; measures to be taken to prevent its spread and to destroy it; by L. O. Howard. April 4, 1893. n. t. p. 10 pp.
- 4 No. 4. Army worm, circular relative to; by L. O. Howard. June 16, 1894. n. t. p. 5 pp.
- 5 No. 5. Carpet beetle or "Buffalo moth"; by L. O. Howard. Sept. 8, 1894. n. t. p. 4 pp.
- 6¹ No. 6. Mexican cotton-boll weevil; by L. O. Howard. April 2, 1895. n. t. p. 5 pp.
- 6² Same, [Spanish ed.] 6 pp.
[For revision, see A9.5:14.]
- 7 No. 7. Pear-tree psylla; by C. L. Marlatt. May 1, 1895. n. t. p. 8 pp.
- 8 No. 8. Imported elm leaf-beetle; by C. L. Marlatt. May 23, 1895. n. t. p. 4 pp.
- 9 No. 9. Canker-worms; by D. W. Coquillett. May 24, 1895. n. t. p. 4 pp.

A9. ENTOMOLOGY DIVISION—Continued**A9.5: Circulars, second series**—Continued

- 10 No. 10. Harlequin cabbage bug, or Calico bug; by L. O. Howard. May 24, 1895. n. t. p. 2 pp.
- 11 No. 11. Rose-chaffer; by F. H. Chittenden. May 21, 1895. n. t. p. 4 pp.
- 12¹ No. 12. Hessian fly; by C. L. Marlatt. July 26, 1895. n. t. p. 4 pp.
- 12² Same, rev. ed. Apr. 13, 1900. n. t. p. 4 pp.
- 13¹ No. 13. Mosquitoes and fleas; by L. O. Howard. Feb. 1, 1896. n. t. p. 4 pp.
- 13² Same, rev. ed. Nov. 15, 1897. n. t. p. 5 pp.
- 14¹ No. 14. (Revision of No. 6.) Mexican cotton-boll weevil; by L. O. Howard. Feb. 12, 1896. n. t. p. 8 pp.
- 14² Same, [Spanish edition.] n. t. p. 8 pp.
[For revision, see A9.5:18.]
- 15 No. 15. General work against insects which defoliate shade trees in cities and towns; by L. O. Howard. Mar. 6, 1896. n. t. p. 4 pp.
[In advance, from article "Shade-tree insect problem in Eastern U. S.," published in Yearbook for 1895.]
- 16 No. 16. Larger corn stalk-borer; by L. O. Howard. Aug. 13, 1896. n. t. p. 3 pp.
- 17 No. 17. Peach-tree borer; by C. L. Marlatt. Sept. 30, 1896. n. t. p. 4 pp.
- 18¹ No. 18. Mexican cotton-boll weevil. Revision of No. 14. Feb. 4, 1897. n. t. p. 8 pp.
- 18² Same. [Spanish edition.] n. t. p. 10 pp.
- 18³ Same. [German edition.] n. t. p. 11 pp.
- 19¹ No. 19. Clover mite; by C. L. Marlatt. Mar. 5, 1897. n. t. p. 4 pp.
- 19² Same, 2d ed. July 19, 1897. n. t. p. 4 pp.
- 20 No. 20. Woolly aphid of apple; by C. L. Marlatt. Mar. 15, 1897. n. t. p. 6 pp.
- 21 No. 21. Strawberry weevil; by F. H. Chittenden. Mar. 18, 1897. n. t. p. 7 pp.
- 22 No. 22. Periodical cicada in 1897; by E. A. Schwarz. May 1, 1897. n. t. p. 4 pp.
- 23 No. 23. Buffalo tree-hopper; by C. L. Marlatt. May 10, 1897. n. t. p. 4 pp.
- 24 No. 24. Two-lined chestnut borer; by F. H. Chittenden. July 14, 1897. n. t. p. 8 pp.
- 25 No. 25. Ox warble; by C. L. Marlatt. July 19, 1897. n. t. p. 10 pp.
- 26 No. 26. Pear slug; by C. L. Marlatt. Aug. 28, 1897. n. t. p. 7 pp.
- 27 No. 27. Mexican cotton-boll weevil in 1897; by L. O. Howard. Dec. 31, 1897. n. t. p. 7 pp.
- 28 No. 28. Box-elder plant-bug; by L. O. Howard. Jan. 8, 1898. n. t. p. 3 pp.
- 29 No. 29. Fruit-tree bark-beetle; by F. H. Chittenden. Mar. 25, 1898. n. t. p. 8 pp.
- 30 No. 30. Periodical cicada in 1898; by E. A. Schwarz. Apr. 1, 1898. n. t. p. 3 pp.
- 31 No. 31. Striped cucumber beetle; by F. H. Chittenden. Apr. 26, 1898. n. t. p. 7 pp.
- 32¹ No. 32. Larger apple-tree borers; by F. H. Chittenden. July 1, 1898. n. t. p. 12 pp.
- 32² Same, revised edition. Aug. 30, 1902. n. t. p. 12 pp.
- 33 No. 33. Remedial work against Mexican cotton-boll weevil; by L. O. Howard. July 1, 1898. n. t. p. 6 pp.
- 34 No. 34. House ants; by C. L. Marlatt. July 6, 1898. n. t. p. 4 pp.
- 35 No. 35. House flies; by L. O. Howard. July 11, 1898. n. t. p. 8 pp.
- 36 No. 36. True clothes moths; by C. L. Marlatt. July 18, 1898. n. t. p. 8 pp.
- 37¹ No. 37. Use of hydrocyanic acid gas for fumigating greenhouses and cold frames; by Albert F. Woods and P. H. Dorsett. Jan. 10, 1899. n. t. p. 10 pp.
- 37² Same, corrected print. [Compare page 8.] Jan. 10, 1899. n. t. p. 10 pp.

Tables

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A9. ENTOMOLOGY DIVISION—Continued

A9.5: Circulars, second series—Continued

- 38 No. 38. Squash-vine borer; by F. H. Chittenden. Apr. 22, 1899. n. t. p. 6 pp.
- 39 No. 39. Common squash bug; by F. H. Chittenden. Apr. 27, 1899. n. t. p. 5 pp.
- 40¹ No. 40. How to distinguish different mosquitoes of North America; by L. O. Howard [with synoptical table of mosquitoes; by D. W. Coquillett]. Feb. 20, 1900. n. t. p. 7 pp.
- 40² Same [1901], 2d print. n. t. p. 8 pp.
- 41 No. 41. Regulations of foreign governments regarding importation of American plants, trees, and fruits; by L. O. Howard. Aug. 24, 1900. n. t. p. 4 pp.
- 42¹ No. 42. How to control San Jose scale; by C. L. Marlatt. Oct. 22, 1900. n. t. p. 6 pp.
- 42² Same, revised. May 17, 1902.
- 43 No. 43. Destructive green pea louse; by F. H. Chittenden. May 23, 1901. n. t. p. 8 pp.
- 44 No. 44. Periodical cicada in 1902; by W. D. Hunter. Mar. 13, 1902. n. t. p. 4 pp.
- 45 No. 45. New nomenclature for broods of periodical cicada; by C. L. Marlatt. May 1, 1902. n. t. p. 8 pp.
- 46 No. 46. Hydrocyanic-acid gas against household insects; by L. O. Howard. May 22, 1902. n. t. p. 4 pp.
- 47 No. 47. The bedbug; by C. L. Marlatt. June 15, 1902. n. t. p. 8 pp.
- 48 No. 48. House centipede; by C. L. Marlatt. June 10, 1902. n. t. p. 4 pp.
- 49 No. 49. Silver fish; by C. L. Marlatt. June 20, 1902. 4 pp.
- 50 No. 50. White ant; by C. L. Marlatt. June 30, 1902. n. t. p. 8 pp.
- 51 No. 51. Cockroaches; by C. L. Marlatt. June 23, 1902. n. t. p. 15 pp.

A9.6: Bulletins, new series

- 1¹ No. 1. Honeybee, a manual of instruction in apiculture; by Frank Benton. 1895. 118 pp. 12 pl.
- 1² Same, rev. ed. 1896. 118 pp. 12 pl.
- 1³ Same, 3d ed. 1899. 118 pp. 12 pl.
- Same, 54th Cong., 1st sess., H. doc. 359; serial no. 3435.
- 2 No. 2. Proceedings of 7th annual meeting of Association of Economic Entomologists [Springfield, Mass., 1895]. 1895. 100 pp.
- 3 No. 3. San Jose scale, its occurrences in U. S., with full account of its life history and remedies to be used against it; by L. O. Howard and C. L. Marlatt. 1896. 80 pp.
- 4¹ No. 4. Principal household insects of U. S., by L. O. Howard and C. L. Marlatt; with chapter on insects affecting dry vegetable foods, by F. H. Chittenden. 1896. 130 pp.
- 4² Same, revised edition. 1896 [1899]. 131 pp.
- 5 No. 5. Insects affecting domestic animals, an account of species of importance in North America, with mention of related forms occurring on other animals; by Herbert Osborn. 1896. 302 pp. 5 pl.
- 6 No. 6. Proceedings of 8th annual meeting Association of Economic Entomologists. 1896. 100 pp.
- 7 No. 7. Some miscellaneous results of work of Division of Entomology [1]. 1897. 87 pp.
- 8 No. 8. Some little known insects affecting stored vegetable products: a collection of articles detailing certain original observations made upon insects of this class; by F. H. Chittenden. 1897. 45 pp.
- 9 No. 9. Proceedings 9th annual meeting of Association of Economic Entomologists. 1897. 87 pp.
- 10 No. 10. Some miscellaneous results of work of Division of Entomology [2]. 1898. 99 pp.
- 11 No. 11. Gipsy moth in America, a summary account of introduction and spread of *Porthetria dispar* in Massachusetts and of efforts made to repress and exterminate it; by L. O. Howard. 1897. 39 pp.
- 12 No. 12. San Jose scale, 1896-97; by L. O. Howard. 1898. 31 pp.

A9. ENTOMOLOGY DIVISION—Continued**A9.6: Bulletins, new series—Continued**

- 13 No. 13. Recent laws against injurious insects in North America, with laws relative to foul brood; compiled by L. O. Howard. 1898. 68 pp.
- 14 No. 14. Periodical cicada, an account of *Cicada septendecim*, its natural enemies and means of preventing its injury, with summary of distribution of different broods; by C. L. Marlatt. 1898. 148 pp. 1 leaf. 4 pl.
- 15 No. 15. Chinch bug, its probable origin and diffusion, its habits and development, natural checks and remedial and preventive measures, with mention of habits of an allied European species; by F. M. Webster. 1898. 82 pp.
- 16 No. 16. Hessian fly in United States; by Herbert Osborn. 1898. 58 pp. 3 pl.
- 17 No. 17. Proceedings 10th annual meeting Association of Economic Entomologists. 1898. 104 pp.
- 18 No. 18. Some miscellaneous results of work of Division of Entomology, 3. 1898. 101 pp.
- 19 No. 19. Some insects injurious to garden and orchard crops; by F. H. Chittenden. 1899. 99 pp.
- 20 No. 20. Proceedings 11th annual meeting Association of Economic Entomologists. 1899. 111 pp.
- 21 No. 21. Preliminary report on insect enemies of forests in northwest, an account of results gained from a reconnaissance trip made in spring and early summer of 1899; by A. D. Hopkins. 1899. 27 pp.
- 22 No. 22. Some miscellaneous results of work of Division of Entomology, 4. 1900. 109 pp.
- 23 No. 23. Some insects injurious to garden crops; by F. H. Chittenden. 1900. 92 pp.
- 24 No. 24. List of works on North American entomology; compiled by Nathan Banks. 1900. 95 pp.
- 25 No. 25. Notes on mosquitoes of U. S., giving some account of their structure and biology, with remarks on remedies; by L. O. Howard. 1900. 70 pp.
- 26 No. 26. Proceedings 12th annual meeting Association of Economic Entomologists. 1900. 102 pp. 2 pl.
- 27¹ No. 27. Some insects injurious to violet, rose, and other ornamental plants; by F. H. Chittenden. 1901. 114 pp. 4 pl.
- 27² Same, revised ed. 1901. 114 pp. 4 pl.
- 28 No. 28. Insect enemies of spruce in northeast, a popular account of results of special investigations, with recommendations for preventing losses; by A. D. Hopkins. 1901. 80 pp. 16 pl.
- 29 No. 29. Fall army worm and variegated cutworm; by F. H. Chittenden. 1901. 64 pp.
- 30 No. 30. Some miscellaneous results of work of Division of Entomology, 5. 1901. 98 pp. 2 pl.
- 31 No. 31. Proceedings of 13th annual meeting of Association of Economic Entomologists [1901]. 1902. 103 pp. 2 pl.
- 32 No. 32. Insect enemies of pine in Black Hills Forest Reserve, an account of results of special investigations, with recommendations for preventing losses; by A. D. Hopkins. 1902. 24 pp. 7 pl.
- 33 No. 33. Some insects injurious to vegetable crops; by F. H. Chittenden. 1902. 117 pp.
- 34 No. 34. Principal insects liable to be distributed on nursery stock; by Nathan Banks. 1902. 46 pp.
- 35 No. 35. Report on codling-moth investigations in northwest during 1901; by C. B. Simpson. 1902. 29 pp. 5 pl.
- 36 No. 36. An index to Bulletins Nos. 1-30 (new series 1896-1901) of Division of Entomology; compiled by Nathan Banks. 1902. 64 pp.
- 37 No. 37. Proceedings of 14th annual meeting of Association of Economic Entomologists. 1902. 127 pp. 1 pl.
- 38 No. 38. Some miscellaneous results of work of Division of Entomology, 6. 1902. 110 pp. 2 pl.

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A9. ENTOMOLOGY DIVISION—Continued

A9.6: Bulletins, new series (separates)

[A few of the more important papers contained in the bulletins were issued separately. References to *all* the papers will be found under their proper headings in the Index to this work.]

A9.7: Insect life

[In indexing these volumes for this work the "notes" were all disregarded.]

- 1 V. 1. Periodical bulletin, July, 1888, to June, 1889. [Nos. 1-12.]
 - No. 1. July, 1-32 pp.
 - No. 2. Aug., 2+33-62 pp.
 - No. 3. Sept., [2]+63-92 pp.
 - No. 4. Oct., 2+93-122 pp.
 - No. 5. Nov., [2]+123-162 pp.
 - No. 6. Dec., 2+163-200 pp.
 - No. 7. Jan., 2+201-230 pp.
 - No. 8. Feb., ii+231-260 pp.
 - No. 9. Mar., ii+261-295 pp.
 - No. 10. Apr., ii+297-326 pp.
 - No. 11. May, ii+327-357 pp.
 - No. 12. June, 2+359-388. [Title page, table of contents, and index for vol. 1 issued with this number. xxxii pp.]
- 2 V. 2. Periodical bulletin, July, 1889, to June, 1890. [12 numbers in 10.]
 - No. 1. July, 2+30 pp.
 - No. 2. Aug., ii+31-60 pp.
 - No. 3. Sept., ii+61-90 pp.
 - No. 4. Oct., ii+91-123 pp.
 - No. 5. Nov., ii+125-162 pp.
 - No. 6. Dec., ii+163-197 pp.
 - Nos. 7 and 8. Jan. and Feb., ii+199-262 pp.
 - No. 9. Mar., ii+263-292 pp.
 - No. 10. Apr., ii+293-333 pp.
 - Nos. 11 and 12. May and June, ii+335-390 pp.

[Title page, table of contents, and index issued with no. 1 of vol. 3.]
- 3 V. 3. Periodical bulletin, August, 1890, to August, 1891. [12 numbers in 8.]
 - No. 1. Aug., ii+41 pp. [Title page, table of contents, and index for vol. 2 issued with this number, viii+391-418 pp.]
 - No. 2. Sept., ii+41-87 pp.
 - No. 3. Nov., ii+89-129 pp.
 - No. 4. Nov., ii+131-178 pp.
 - No. 5. Jan., ii+179-250 pp.
 - No. 6. Mar., ii+251-304 pp.
 - Nos. 7 and 8. Apr., ii+305-357 pp.
 - Nos. 9 and 10. June, ii+359-432 pp.
 - Nos. 11 and 12. Aug., ii+433-519 pp. [Title page and table of contents for vol. 3 issued with this number, viii pp.]
- 4 V. 4. Periodical bulletin, October, 1891, to August, 1892. [12 numbers in 6.]
 - Nos. 1 and 2. Oct., iv+86 pp.
 - Nos. 3 and 4. Nov., iv+87-162 pp.
 - Nos. 5 and 6. Dec., iii+163-230 pp.
 - Nos. 7 and 8. April, ii+231-292 pp.
 - Nos. 9 and 10. June, ii+293-352 pp.*
 - Nos. 11 and 12. Aug., iii+353-441 pp. [Title page and table of contents for vol. 4 issued with this number, viii pp.]
- 5 V. 5. Periodical bulletin, September, 1892, to July, 1893. [Nos. 1-5.]
 - No. 1. Sept., iii+62 pp.
 - No. 2. Nov., iii+63-146 pp.
 - No. 3. Jan., iii+147-212 pp.
 - No. 4. Apr., iii+213-288 pp.
 - No. 5. July, iii+289-402 pp. [Title page and table of contents for vol. 5 issued with this number, vii pp.]

*The unbound serial numbers of this issue could not be found. As bound in the volumes the lettered pages are omitted, and could not therefore be verified.

Classification no.

A9. ENTOMOLOGY DIVISION—Continued**A9.7: Insect life—Continued**

- 6 V. 6. Periodical bulletin, November, 1893, to August [September], 1894. [Nos. 1-5.]
 No. 1. Nov., iii+58 pp.*
 No. 2. Dec., iii+59-206 pp.*
 No. 3. Feb., iii+207-282 pp.*
 No. 4. May, iii+283-346 pp.*
 No. 5. Sept., iii+347-405 pp.* [Title page and table of contents for volume 6 issued with this number, vii pp.]
- 7 V. 7. Periodical bulletin, September, 1894, to July, 1895. [Nos. 1-5.]
 No. 1. Sept., iii+54 pp.
 No. 2. Oct., iii+55-215 pp.*
 No. 3. Dec., iii+217-280 pp.*
 No. 4. Mar., iii+281-360 pp.*
 No. 5. July, iii+361-448 pp.* [Title page and table of contents for vol. 7 issued with this number, v pp.]
- 8 [V. 8] General index to the seven volumes of Insect Life, 1888-1895. 1897. 145 pp.
 [Discontinued. The class of matter formerly used in this series is continued in Bulletins, new series (A9.6:) and Technical series (A9.8:)]

A9.7": Insect life (separates)

[A few of the more important articles were issued separately in pamphlet form. References to *all* the articles will be found under their proper headings in the index to this work.]

A9.8: Technical series

- 1 No. 1. Revision of Aphelininae of North America, a subfamily of hymenopterous parasites of family Chalcididae; by L. O. Howard. 1895. 44 pp.
- 2 No. 2. Grass and grain joint-worm flies and their allies, a consideration of some North American phytophagic Eurytominae; by L. O. Howard. 1896. 24 pp.
- 3 No. 3. Revision of Nematinae of North America, a subfamily of leaf-feeding hymenoptera of family Tenthredinidae; by C. L. Marlatt. 1896. 135 pp. 1 pl.
- 4 No. 4. Some Mexican and Japanese injurious insects liable to be introduced into United States. 1896. 56 pp.
- 5 No. 5. Study in insect parasitism, consideration of parasites of white-marked tussock moth, with account of their habits, and interrelations, with descriptions of new species; by L. O. Howard. 1897. 57 pp.
- 6 No. 6. San Jose scale and its nearest allies; by T. D. A. Cockerell. 1897. 31 pp.
- 7 No. 7. Revision of Tachinidae of America north of Mexico, a family of parasitic two-winged insects; by D. W. Coquillett. 1897. 154+149-156 pp.
 [Corrected index issued Dec. 1897.]
- 8 No. 8. Contributions toward a monograph of the American Aleurodidae, by A. L. Quaintance; Red spiders of U. S. (Tetranychus and Stigmæus), by Nathan Banks. 1900. 79 pp. 8 pl.
- 9 No. 9. Life history of two species of plant-lice inhabiting both witch-hazel and birch; by Theo. Pergande. 1901. 44 pp.

A10. EXPERIMENT STATIONS OFFICE

[For historical sketch of Office, *see* Yearbook, 1897 (A1.10:897), p. 135.]

A10.1: Annual reports of Director (to Secretary of Agriculture)

- 1888 (Atwater). (In A1.1:888, p. 537.)
- 889 1889 (Atwater), [1]+485-544+iv pp. (Also in A1.1:889, p. 485.)
- 890 1890 (Atwater), [1]+489-555+iii pp. (Also in A1.1:890, p. 489.)

*The unbound serial numbers of these issues could not be found. As bound in the volumes the lettered pages are omitted, and could not therefore be verified.

Tables

Classification
no.

A10. EXPERIMENT STATIONS OFFICE—Continued

A10.1: Annual reports of Director (to Secretary of Agriculture)—Continued.

891	1891 (Harris), [1]+503-538+ii pp. Map. (Also in A1.1:891, p. 503.)
892	1892 (Harris), iii+515-549+iii pp. (Also in A1.1:892, p. 515.)
893	1893 (True), iv+417-464+ii pp. (Also in A1.1:893, p. 417.)
894	1894 (True), iii+123-131 pp. (Also in A1.1:894, p. 123.)
895	1895 (True), iii+131-143 pp. (Also in A1.1:895, p. 131.)
896	1896 (True), iii+123-143 pp. (Also in A1.1:896, p. 123.)
897	1897 (True), iii+117-139 pp. (Also in A1.1:897, p. 117.)
898	1898 (True), iii+103-126 pp. (Also in A1.1:898, p. 103.)
899	1899 (True), iii+119-153 pp. (Also in A1.1:899, p. 119.)
900	1900 (True), ii+165-210 pp. (Also in A1.1:900, p. 165.)
901	1901 (True), iii+175-233 pp. (Also in A1.1:901, p. 175.)
902	1902 (True), iii+241-304 pp. (Also in A1.1:902, p. 241.)

A10.1²: Annual reports of Office of Experiment Stations (to Congress)

[By provision of the act establishing experiment stations in connection with the agricultural colleges in the various states and territories, approved Mar. 2, 1887, the stations were required to send to the governors of their respective states or territories, for transmission to the Secretary of Agriculture, on or before February 1st of each year, a statement of their receipts and expenditures, with an outline of the work accomplished.

It was not, however, until the approval of the Agricultural appropriation act of Aug. 8, 1894, that provision was made for sending to Congress an annual report based upon these returns. The report for the fiscal year 1895, the one called for in the act, was laid before the Senate Apr. 7, 1896, and referred to the Committee on Printing, who reported a concurrent resolution providing for its publication as a document, with 2,000 additional copies for the use of the Agriculture Department. The resolution passed the Senate but did not receive the sanction of the House, and the report therefore was never printed.

The second report, 1896, called for by Congress, was printed as S. doc. 137, 54th Cong., 2d sess.; serial no. 3470.

The third report, 1897, was printed as H. doc. 205, 55th Cong., 2d sess.; serial no. 3667, and also as Bulletin no. 50, Experiment Stations Office.

The fourth report, 1898, was printed as H. doc. 121, 55th Cong., 3d sess.; serial no. 3768, and also as Bulletin no. 61, Experiment Stations Office.

The fifth report, 1899, was printed as H. doc. 500, 56th Cong., 1st sess.; serial no. 3929, and also as Bulletin no. 83, Experiment Stations Office.

The sixth report, 1900, was printed as H. doc. 336, 56th Cong., 2d sess.; serial no. 4116, and also as Bulletin no. 93, Experiment Stations Office.

The seventh report, 1901, the first to be published as an "annual report of the Office of Experiment Stations," was also printed as H. doc. 334, 57th Cong., 1st sess.; serial no. 4301.

Future reports will be issued in conformity with this latter method and will include, besides the receipts and expenditures, reports of the Alaska, Hawaii, and Porto Rico Experiment Stations, which are under the direct supervision of the Office; reports on Investigations on irrigation and on the nutrition of man, and on Agricultural Education and the Farmers' Institutes.]

901	1901 (True), 489 pp. 41 pl. Same, 57th Cong., 1st sess., H. doc. 334; serial no. 4301.
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A10.2: General publications

[Publications which originated in this Office, but which were published in a numbered series of the Secretary's Office or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the Index to this work. Publications of this Office issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

Ab2	Abbreviations used in Experiment Station Record. n. t. p. n. d. 16 pp.
C18	Card index of agricultural literature. Terms of sale of card index of agricultural literature. n. d. n. t. p. [3] pp.
C43 ¹	[Chicago, Ill., World's Columbian Exposition, Collective College and Station exhibit.] n. t. p. May 12, 1892. [4] pp. 4°
C43 ²	Same. Address by advisory board. Nov. 19, 1892. (Circ.)
C43 ³	Same. [Letter to accompany address.] Nov. 23, 1892. (Circ.)
C43 ⁴	Same. Extract from annual address of New Orleans convention. Nov., 1892. (Circ.)
F73 ¹	Food and nutrition of man. List of publications on food and nutrition of man. [May, 1898.] n. t. p. 4 pp.
F73 ²	Same, rev. [July, 1898.] n. t. p. 4 pp.

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no.**A10. EXPERIMENT STATIONS OFFICE—Continued****A10.2: General publications—Continued**

- F73³ Food and nutrition of man. List of publications on food and nutrition of man, rev. [July, 1899.] n. t. p. 5 pp.
- F73⁴ Same, rev. [Mar. 1900.] n. t. p. 6 pp.
- F73⁵ Same, rev. [Dec. 1900.] n. t. p. 7 pp.
- F73⁶ Same, rev. [Oct. 1901.] n. t. p. 8 pp.
- F73⁷ Same, rev. Nov. 5, 1902. n. t. p. 9 pp.
- In2 Index to "Experiment Station Work." [Announcement regarding.] May 7, 1898. (Circ.)
- Ir7¹ Irrigation. List of publications of Office on Irrigation. n. t. p. n. d. 2 pp.
- Ir7² Same, rev. [1901.] n. t. p. 4 pp.
- Ir7³ Same, rev. [1901.] n. t. p. 5 pp.
- Ir7⁴ Same, rev. Oct. 15, 1902. n. t. p. 7 pp.
- P83 Porto Rico. Message from President of U. S., transmitting report on investigations of agricultural resources and capabilities of Porto Rico, with special reference to establishment of an agricultural experiment station in that island, [by Seaman A. Knapp.] 1901. 32 pp. 7 pl.
- Same, 56th Cong., 2d sess., H. doc. 171; serial no. 4117.
- St2 Station publications. List of Station publications lacking in library of office of Experiment Stations. Nov. 1, 1892. n. t. p. 4 pp.

A10.3: Bulletins

- 1 No. 1. Organization of Agricultural Experiment Stations in U. S. 1889. 82 pp.
- 2¹ No. 2. Digest of annual reports of Experiment Stations in U. S., 1888, pt. 1. 1889. 258 pp.
- 2² Same, pt. 2. 1891. 173 pp.
- 3 No. 3. Report of meeting of horticulturists of Agricultural Experiment Stations, at Columbus, Ohio, June 13, 14, 1889; by A. W. Harris. 1889. 12 pp.
- 4 No. 4. List of horticulturists of Agricultural Experiment Stations in U. S., with outline of work in horticulture at the several stations; by W. B. Alwood. 1889. 27 pp.
- 5 No. 5. Organization lists of Agricultural Experiment Stations and agricultural schools and colleges in U. S. 1890. 67 pp.
- 6 No. 6. List of botanists of Agricultural Experiment Stations in U. S., with outline of work in botany at the several stations. 1890. 23 pp.
- 7 No. 7. Proceedings of 5th annual convention Association of American Agricultural Colleges and Experiment Stations, Washington, D. C., Aug. 12-18, 1891; edited by A. W. Harris and H. E. Alvord. 1892. 113 pp.
- 8 No. 8. Six lectures on investigations at Rothamsted Experimental Station, delivered under provisions of Lawes Agricultural trust by Robt. Warington, before Association of American Agricultural Colleges and Experiment Stations at Washington, D. C., Aug. 12-18, 1891. 1892. 113 pp. 11 pl.
- 9 No. 9. Fermentations of milk; by H. W. Conn. 1892. 75 pp.
- 10 No. 10. Meteorological work for agricultural institutions; [by] Mark W. Harrington. 1892. 23 pp.
- 11 No. 11. Compilation of analyses of American feeding stuffs; by E. H. Jenkins and A. L. Winton. 1892. 155 pp.
- 12 No. 12. Organization lists of Agricultural Experiment Stations and agricultural schools and colleges in U. S. 1892. 78 pp.
- 13 No. 13. Organization lists of Agricultural Experiment Stations and agricultural schools and colleges in U. S. 1893. 123 pp.
- 14 No. 14. Proceedings of convention of National League for Good Roads, held at Washington, D. C., Jan. 17, 18, 1893, and hearing by Committee on Agriculture of House of Representatives January 19, 1893. 1893. 101 pp.
- 15 No. 15. Handbook of experiment station work; a popular digest of publications of the agricultural experiment stations in U. S. 1893. 411 pp.
- Same, 54th Cong., 1st sess., H. doc. 361; serial no. 3435.

Tables

Classification
no.

A10. EXPERIMENT STATIONS OFFICE—Continued

A10.3: Bulletins—Continued

- 16 No. 16. Proceedings 6th annual convention of Association of American Agricultural Colleges and Experiment Stations, New Orleans, La., Nov. 15-19, 1892; edited by A. W. Harris and H. E. Alvord. 1893. 176 pp.
- 17 No. 17. Suggestions for establishment of food laboratories in connection with agricultural experiment stations of U. S.; [by Edward Atkinson]. 1893. 20 pp.
- 18 No. 18. Contribution to investigation of assimilation of free atmospheric nitrogen by white and black mustard; by J. P. Lotsy. 1894. 19 pp.
- 19 No. 19. Organization lists of agricultural experiment stations and agricultural schools and colleges in U. S. 1894. 99 pp.
- 20 No. 20. Proceedings of 7th annual convention of Association of American Agricultural Colleges and Experiment Stations, Chicago, Ill., Oct. 17-19, 1893; edited by A. C. True and H. E. Alvord. 1894. 100 pp.
- 21 No. 21. Methods and results of investigations on chemistry and economy of food; by W. O. Atwater. 1895. 222 pp.
- 22 No. 22. Agricultural investigations at Rothamsted, England, during 50 years; six lectures delivered under provisions of Lawes agricultural trust; by Sir Joseph Henry Gilbert. 1895. 316 pp. 3 pl.
- 23 No. 23. Organization lists of agricultural experiment stations and institutions with courses in agriculture in U. S. 1895. 88 pp.
- 24 No. 24. Proceedings 8th annual convention of Association of American Agricultural Colleges and Experiment Stations, Washington, D. C., Nov. 13-15, 1894; edited by A. C. True and H. H. Goodell. 1895. 98 pp.
- 25 No. 25. Dairy bacteriology; by H. W. Conn. 1895. 40 pp.
- 26 No. 26. Agricultural experiment stations, their objects and work; by A. C. True. 1895. 16 pp.
- 27 No. 27. Organization lists of agricultural experiment stations and institution having courses in agriculture in U. S. 1896. 93 pp.
- 28¹ No. 28. Chemical composition of American food materials; by W. O. Atwater and Chas. D. Woods. 1896. 47 pp.
- 28² Same, rev. ed.; by W. O. Atwater and A. P. Bryant. 1899. 87 pp.
- 29 No. 29. Dietary studies at University of Tennessee in 1895; by Chas. E. Wait, with comments by W. O. Atwater and Chas. D. Woods. 1896. 45 pp.
- 30 No. 30. Proceedings of 9th annual convention of Association of American Agricultural Colleges and Experiment Stations, Denver, Colo., July 16-18, 1895; edited by A. C. True and H. H. Goodell. 1896. 100 pp.
- 31 No. 31. Dietary studies at University of Missouri in 1895 and data relating to bread and meat consumption in Missouri; by H. B. Gibson, S. Calvert, and D. W. May, with comments by W. O. Atwater and Chas. D. Woods. 1896. 24 pp.
- 32 No. 32. Dietary studies at Purdue University, Lafayette, Ind., in 1895; by Winthrop E. Stone, with comments by W. O. Atwater and Chas. D. Woods. 1896. 28 pp.
- 33 No. 33. Cotton plant: its history, botany, chemistry, culture, enemies, and uses; [Report] with introduction by Charles W. Dabney. 1896. 433 pp. 1 l. 4 pl.
Same, 54th Cong., 2d sess., H. doc. 267; serial no. 3536.
See also A1.9:47 and A1.9:48.
- 34 No. 34. Carbohydrates of wheat, maize, flour, and bread, and action of enzymic ferments upon starches of different origin; by Winthrop E. Stone. 1896. 44 pp.
[Withdrawn Jan., 1898; reissued Jan., 1899; again withdrawn June 24, 1899.]
- 35 No. 35. Food and nutrition investigations in New Jersey in 1895 and 1896; by Edward B. Voorhees. 1896. 40 pp.
- 36 No. 36. Notes on irrigation in Connecticut and New Jersey; by C. S. Phelps and Edward B. Voorhees. 1897. 64 pp.
- 37 No. 37. Dietary studies at Maine State College in 1895; by Whitman H. Jordan. 1897. 57 pp.

A10.3: Bulletins—Continued

- 38 No. 38. Dietary studies with reference to food of negro in Alabama, in 1895 and 1896, conducted with cooperation of Tuskegee Normal and Industrial Institute and the Agricultural and Mechanical College of Alabama; reported by W. O. Atwater and Chas. D. Woods. 1897. 69 pp. 2 pl.
- 39 No. 39. Organization lists of agricultural experiment stations and institutions with courses in agriculture in U. S. 1897. 96 pp.
- 40¹ No. 40. Dietary studies in New Mexico in 1895; by Arthur Goss. 1897. 23 pp.
- 40² Same. 1899. 23 pp.
- 41 No. 41. Proceedings of 10th annual convention of Association of American Agricultural Colleges and Experiment Stations, Washington, D. C., Nov. 10-12, 1896; edited by A. C. True and H. H. Goodell. 1897. 120 pp.
- 42 No. 42. Cotton culture in Egypt; by George P. Foaden. 1897. 34 pp.
- 43 No. 43. Losses in boiling vegetables and composition and digestibility of potatoes and eggs; [articles] by H. Snyder and Almah J. Frisby and A. P. Bryant. 1897. 31 pp.
- 44 No. 44. Report of preliminary investigations on metabolism of nitrogen and carbon in human organism, with respiration calorimeter of special construction; by W. O. Atwater, C. D. Woods, and F. G. Benedict. 1897. 64 pp.
- 45¹ No. 45. Digest of metabolism experiments in which the balance of income and outgo was determined; by W. O. Atwater and C. F. Langworthy. 1897. 434 pp.
- 45² Same, rev. ed. 1898. 434 pp.
- 46 No. 46. Dietary studies in New York City in 1895 and 1896; by W. O. Atwater and Chas. D. Woods. 1898. 117 pp.
- 47 No. 47. Organization lists of agricultural experiment stations and institutions with courses in agriculture in U. S. 1898. 96 pp.
- 48 No. 48. Report to Congress on agriculture in Alaska, including reports by Walter H. Evans, Benton Killin, and Sheldon Jackson. 1898. iv + 36 pp. 23 pl.
- Same, 55th Cong., 2d sess., H. doc. 160; serial no. 3667.
- 49 No. 49. Proceedings of 11th annual convention of Association of American Agricultural Colleges and Experiment Stations, Minneapolis, July 13-15, 1897; edited by A. C. True and H. H. Goodell. 1898. 100 pp.
- 50 No. 50. Work and expenditures of agricultural experiment stations for 1897; by A. C. True. 1898. vi + 97 pp. 6 pl.
- Same, 55th Cong., 2d sess., H. doc. 205; serial no. 3667.
- 51 No. 51. Statistics of land-grant colleges and agricultural experiment stations in U. S. for year ending June 30, 1897. [Compiled by Miss S. L. Sommers.] 1898. 39 pp.
- 52 No. 52. Nutrition investigations in Pittsburg, Pa., 1894-96; by Isabel Bevier. 1898. 48 pp.
- 53 No. 53. Nutrition investigations at University of Tennessee in 1896 and 1897; by Chas. E. Wait. 1898. 46 pp.
- 54 No. 54. Nutrition investigations in New Mexico in 1897; by Arthur Goss. 1898. 20 pp. 1 pl.
- 55 No. 55. Dietary studies in Chicago, 1895 and 1896, conducted with cooperation of Jane Addams and Caroline L. Hunt, of Hull House; reported by W. O. Atwater and A. P. Bryant. 1898. 76 pp.
- 56 No. 56. History and present status of instruction in cooking in public schools of New York City, 1899; reported by (Mrs.) Louise E. Hogan, with introduction by A. C. True. 1899. 70 pp. 12 pl.
- [Withdrawn.]
- 57 No. 57. Varieties of corn; by E. L. Sturtevant. 1899. 108 pp.
- 58 No. 58. Water rights on Missouri River and tributaries, by Elwood Mead; with papers on water laws of Colorado, by John E. Field, and of Nebraska, by J. M. Wilson. 1899. 80 pp. 3 pl.
- 59 No. 59. Organization lists of agricultural colleges and experiment stations in U. S., with list of agricultural experiment stations in foreign countries. 1899. 15 pp.

Tables

Classifica-
tion no.

A10. EXPERIMENT STATIONS OFFICE—Continued

A10.3: Bulletins—Continued

- 60 No. 60. Abstract of laws for acquiring titles to water from Missouri River and tributaries, with legal forms in use; compiled by Elwood Mead. 1899. 77 pp.
- 61 No. 61. Report of work and expenditures of agricultural experiment stations for year ended June 30, 1898; by A. C. True. 1899. vi+113 pp. 14 pl.
Same, 55th Cong., 3d sess., H. doc. 121; serial no. 3768.
- 62 No. 62. Second report to Congress on agriculture in Alaska, including reports; by C. C. Georgeson and Walter H. Evans. 1899. vii+51 pp. 12 pl.
Same, 55th Cong., 3d sess., H. doc. 169; serial no. 3768.
- 63 No. 63. Description of a new respiration calorimeter and experiments on conservation of energy in human body; by W. O. Atwater and E. B. Rosa. 1899. 94 pp. 8 pl. (Slip of corrections for page 86.)
- 64 No. 64. Statistics of land-grant colleges and experiment stations in U. S. for year ending June 30, 1898; [compiled by Miss S. L. Sommers]. 1899. 39 pp.
- 65 No. 65. Proceedings of 12th annual convention of Association of American Agricultural Colleges and Experiment Stations, Washington, D. C., Nov. 15-17, 1898; edited by A. C. True, W. H. Beal, and H. H. Goodell. 1899. 138 pp.
- 66 No. 66. Physiological effect of creatin and creatinin, and their value as nutrients; by J. W. Mallet. 1899. 24 pp.
- 67 No. 67. Studies on bread and bread making; [articles] by Harry Snyder and L. A. Voorhees. 1899. 51 pp. 2 pl.
- 68 No. 68. Description of some Chinese vegetable food materials and their nutritive and economic value; by Walter C. Blasdale. 1899. 48 pp. 8 pl.
- 69¹ No. 69. Experiments on metabolism of matter and energy in human body; by W. O. Atwater and F. G. Benedict, with collaboration of A. W. Smith and A. P. Bryant. 1899. 112 pp.
- 69² Same, revised edition. 1899. 112 pp.
- 70 No. 70. Water-right problems of Bear River; [articles] by Clarence T. Johnston and Joseph A. Breckons. 1899. 40 pp. 9 pl.
- 71 No. 71. Dietary studies of negroes in eastern Virginia in 1897 and 1898; [articles] by H. B. Frissell and Isabel Bevier. 1899. 45 pp. 3 pl.
- 72 No. 72. Farmers' reading courses; by L. H. Bailey. 1899. 36 pp.
- 73 No. 73. Irrigation in Rocky Mountain States; by J. C. Ulrich. 1899. 64 pp. 10 pl.
- 74 No. 74. Organization lists of agricultural colleges and experiment stations in U. S., with list of agricultural experiment stations in foreign countries. 1900. 121 pp.
- 75 No. 75. Dietary studies of university boat crews; by W. O. Atwater and A. P. Bryant. 1900. 72 pp.
- 76 No. 76. Proceedings of 13th annual convention of Association of American Agricultural Colleges and Experiment Stations, San Francisco, Cal., July 5-7, 1899; edited by A. C. True, W. H. Beal, and H. H. Goodell. 1900. 112 pp.
- 77 No. 77. Digestibility of American feeding stuffs; by Whitman H. Jordan and Frank H. Hall. 1900. 100 pp.
- 78 No. 78. Statistics of land-grant colleges and agricultural experiment stations, 1899 [compiled by Miss J. A. Davis]. 1900. 39 pp.
- 79 No. 79. Farmers' institutes, history and status in U. S. and Canada; by L. H. Bailey. 1900. 34 pp.
- 80 No. 80. [History and present status of] Agricultural experiment stations in U. S.; by A. C. True and V. A. Clark. Paris Exposition, 1900, prepared to accompany experiment station exhibit. 1900. 636 pp. 153 pl. map.
Same, 56th Cong., 2d sess., H. doc. 507; serial no. 4170.
- 81 No. 81. Use of water in irrigation in Wyoming and its relation to ownership and distribution of natural supply; by B. C. Buffum. 1900. 56 pp. 8 pl.

Classifica-
tion no.**A10. EXPERIMENT STATIONS OFFICE—Continued****A10.3: Bulletins—Continued**

- 82 No. 82. Agricultural investigations in Alaska, 1899; by C. C. Georgeson. 1900. 55 pp. 17 pl.
Same, 56th Cong., 1st sess., H. doc. 314; serial no. 3929.
- 83 No. 83. Work and expenditures of agricultural experiment stations for year ended June 30, 1899; by A. C. True. 1900. vi+111 pp.
Same, 56th Cong., 1st sess., H. doc. 500; serial no. 3929.
- 84 No. 84. Nutrition investigations at California agricultural experiment station, 1896-1898; by M. E. Jaffa. 1900. 39 pp.
- 85 No. 85. Investigations on digestibility and nutritive value of bread; by Chas. D. Woods and L. H. Merrill. 1900. 51 pp.
- 86 No. 86. Use of water in irrigation; report of investigations made in 1899 under supervision of Elwood Mead and C. T. Johnston, including reports by special agents and observers W. M. Reed, W. H. Code, W. Irving, O. V. P. Stout, Thomas Berry, S. Fortier, R. C. Gemmell, G. L. Swendsen, and D. W. Ross. 1900. 253 pp. 50 pl.
Same, 56th Cong., 2d sess., H. doc. 466; serial no. 4117.
- 87 No. 87. Irrigation in New Jersey; by Edward B. Voorhees. 1900. 40 pp.
- 88 No. 88. Organization lists of agricultural colleges and experiment stations in U. S., with list of agricultural experiment stations in foreign countries. 1901. 134 pp.
- 89 No. 89. Experiments on effect of muscular work upon digestibility of food and metabolism of nitrogen, conducted at University of Tennessee, 1897 to 1899; by Chas. E. Wait. 1901. 77 pp.
- 90 No. 90. Irrigation in Hawaii; by Walter Maxwell. 1900. 48 pp. 6 pl.
- 91 No. 91. Nutrition investigations at University of Illinois, North Dakota Agricultural College, and Lake Erie College, Ohio, 1896-1900; by H. S. Grindley, J. L. Sammis, E. F. Ladd, Isabel Bevier, and Elizabeth C. Sprague. 1900. 42 pp.
- 92 No. 92. Reservoir system of Cache la Poudre Valley; by E. S. Nettleton. 1901. 48 pp. 14 pl.
- 93 No. 93. Work and expenditures of agricultural experiment stations for year ended June 30, 1900; by A. C. True. 1901. 181 pp. 8 pl.
Same, 56th Cong., 2d sess., H. doc. 336; serial no. 4116.
- 94 No. 94. Fourth report on agricultural investigations in Alaska, 1900; by C. C. Georgeson. 1901. 83 pp. 24 pl.
Same, 56th Cong., 2d sess., H. doc. 335; serial no. 4117.
- 95 No. 95. Report on agricultural resources and capabilities of Hawaii; by Wm. C. Stubbs. 1901. 100 pp. 28 pl.
Same, 56th Cong., 2d sess., H. doc. 368; serial no. 4117.
- 96 No. 96. Irrigation laws of northwest territories of Canada, and of Wyoming, with discussions by J. S. Dennis, Fred Bond, and J. M. Wilson. 1901. 90 pp. 6 pl.
- 97 No. 97. Statistics of land-grant colleges and agricultural experiment stations in U. S., for year ended June 30, 1900 [compiled by Miss Marie T. Spethmann]. 1901. 37 pp.
- 98 No. 98. Effect of severe and prolonged muscular work on food consumption, digestion, and metabolism, by W. O. Atwater and H. C. Sherman; and Mechanical work and efficiency of bicyclers, by R. C. Carpenter. 1901. 67 pp.
- 99 No. 99. Proceedings of 14th annual convention of Association of American Agricultural Colleges and Experiment Stations, Nov. 13-15, 1900; edited by A. C. True, W. H. Beal, and H. H. Goodell. 1901. 192 pp. 3 pl.
- 100 No. 100. Report of irrigation investigations in California under direction of Elwood Mead, assisted by William E. Smythe, Marsden Manson, J. M. Wilson, Charles D. Marx, Frank Soulé, C. E. Grunsky, Edward M. Boggs, and James D. Schuyler. 1901. 411 pp. 29 pl. 4°
Same, 57th Cong. 1st sess., S. doc. 356; serial no. 4246.
[Preliminary report, 73 pp., transmitted to Congress, Jan. 24, 1901. (56-2, S. doc. 108; serial no. 4033.)]

Tables

Classification no.

A10. EXPERIMENT STATIONS OFFICE—Continued

A10.3: Bulletins—Continued

- 101 No. 101. Studies on bread and bread making at University of Minnesota, 1899 and 1900; by Harry Snyder. 1901. 65 pp. 3 pl.
- 102 No. 102. Experiments on losses in cooking meat, 1898–1900; by H. S. Grindley, with cooperation of H. McCormack and H. C. Porter. 1901. 64 pp.
- 103 No. 103. Evolution of reaping machines; by Merritt Finley Miller. 1902. 43 pp. 9 pl.
- 104 No. 104. Report of irrigation investigations for 1900; under supervision of Elwood Mead, including reports by special agents and observers W. M. Reed, W. H. Code, A. J. McClatchie, W. Irving, J. M. Wilson, R. C. Gemmell, G. L. Swendsen, O. V. P. Stout, W. H. Fairfield, D. W. Ross, O. L. Waller, S. Fortier, and J. C. Nagle. 1902. 334 pp. 25 pl. 3 maps.
- 105 No. 105. Irrigation in U. S.; testimony of Elwood Mead before Industrial Commission, June 11 and 12, 1901. Reprinted from report of U. S. Industrial Commission on agriculture and agricultural labor. 1901. 47 pp. 12 pl.
- 106 No. 106. Results of investigations on Rothamsted soils, being lectures delivered under provisions of Lawes agricultural trust, by Bernard Dyer, before Association of American Agricultural Colleges and Experiment Stations at New Haven and Middletown, Conn., Nov., 1900. 1902. 180 pp.
- 107 No. 107. Nutrition investigations among fruitarians and Chinese at California Agricultural Experiment Station, 1899–1901; by M. E. Jaffa. 1901. 43 pp. 1 pl.
- 108 No. 108. Irrigation practice among fruit growers on Pacific coast; by E. J. Wickson. 1902. 54 pp. 10 pl.
- 109 No. 109. Experiments on metabolism of matter and energy in human body, 1898–1900; by W. O. Atwater and F. G. Benedict, with cooperation of A. P. Bryant, A. W. Smith, and J. F. Snell. 1902. 147 pp.
- 110 No. 110. Proceedings of 6th annual meeting of American Association of Farmers' Institute Workers, Buffalo, Sept. 18 and 19, 1901; edited by A. C. True, D. J. Crosby, and G. C. Creelman. 1902. 55 pp.
- 111 No. 111. Organization lists of agricultural colleges and experiment stations in U. S., with list of agricultural experiment stations in foreign countries. 1902. 130 pp.
- 112 No. 112. Agricultural experiment stations in foreign countries; by A. C. True and D. J. Crosby. 1902. 230 pp.
- 113 No. 113. Irrigation of rice in U. S.; [articles] by Frank Bond and George H. Keeney. 1902. 77 pp. 29 pl.
- 114 No. 114. Statistics of land-grant colleges and agricultural experiment stations in U. S. for year ended June 30, 1901 [compiled by Miss Marie T. Spethmann]. 1902. 39 pp.
- 115 No. 115. Proceedings of 15th annual convention of Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., Nov. 12–14, 1901; edited by A. C. True, W. H. Beal, and H. H. Goodell. 1902. 134 pp.
- 116 No. 116. Dietary studies in New York City in 1896 and 1897; by W. O. Atwater and A. P. Bryant. 1902. 83 pp.
- 117 No. 117. Experiments on effect of muscular work upon digestibility of food and metabolism of nitrogen, conducted at University of Tennessee, 1899–1900; by Chas. E. Wait. 1902. 43 pp.
- 118 No. 118. Irrigation from Big Thompson River; by John E. Field. 1902. 75 pp. 6 pl.
- 119 No. 119. Report of irrigation investigations for 1901, containing Summary of results, by R. P. Teetle, and Reports by W. M. Reed, W. H. Code, A. J. McClatchie, E. W. Hilgard, W. Irving, A. E. Chandler, O. L. Waller, D. W. Ross, Samuel Fortier, A. P. Stover, O. V. P. Stout, H. J. Waters, F. H. King, E. B. Voorhees, and J. C. Nagle. 1902. 401 pp. 64 pl.

Classification,
no.**A10. EXPERIMENT STATIONS OFFICE**—Continued**A10.3: Bulletins**—Continued

- 120 No. 120. Proceedings of 7th annual meeting of American Association of Farmers' Institute Workers, held at Washington, D. C., June 24-26, 1902; edited by A. C. True, D. J. Crosby, and G. C. Creelman. 1902. 119 pp.
- 121 No. 121. Experiments on metabolism of nitrogen, sulphur, and phosphorus in the human organism; by H. C. Sherman. Conducted in cooperation with Columbia University. 1902. 47 pp.

A10.3^a: Bulletins (separates)

[A few of the more important articles contained in the Bulletins were issued separately in pamphlet form. References to *all* the articles will be found under their proper headings in the index to this work].

A10.4: Circulars

- 1 No. 1. List of agricultural experiment stations in U. S., with addresses. Feb. 1, 1889. n. p. n. d. 7 pp.
- 2 No. 2. [In regard to meeting of those interested in use of fertilizers. Jan. 31, 1889. n. t. p. [3] pp.]
- 3 No. 3. [Extract from proceedings of Knoxville Convention.] Feb. 6, 1889. n. t. p. [3] pp.
- 4 No. 4. Memorandum for station reports. Feb. 12, 1889. n. p. n. d. 4 pp.
- 5 No. 5. [Call for meeting of experiment stations for discussion.] Feb. 25, 1889. (Circ.)
- 6 No. 6. List of originators of fruits, vegetables, etc., in U. S., with addresses and names of specialists. Mar. 8, 1889. 7 l. f°
[Mimeographed; never printed.]
- 7 No. 7. Cooperative field experiments with fertilizers. Mar., 1889. n. p. n. d. 39 pp.
- 8 No. 8. Explanations and directions for soil tests with fertilizers. Mar. 1889. n. p. n. d. 11 pp.
- 9 No. 9. Memorandum for report on farmers' institutes in United States. n. d. 4 l. blank.
- 10 No. 10. [Horticulturists' circular, schedule of questions. List of horticulturists and botanists of Experiment Stations in U. S.] June 27, 1889. 7 l. f°
[Mimeographed; never printed.]
- 11 No. 11. Rules for naming vegetables. Report of Committee of Experiment-Station Horticulturists. Sept., 1889. n. p. n. d. [3] pp.
- 12 No. 12. Regarding library and publications of Office of Experiment Stations. July, 1889. 3 pp. n. p. n. d. (c. t. o.)
- 13 No. 13. [Calling attention to meeting of American agricultural colleges and experiment stations. Oct. 16, 1889. n. t. p. [3] pp.]
- 14 No. 14. [Calling attention to meeting of official economic entomologists.] Oct. 28, 1889. n. t. p. [3] pp.
- 15 No. 15. Inquiries regarding investigations in botany at agricultural colleges and experiment stations. Jan., 1890. n. p. n. d. [4] pp.
- 16 No. 16. [Relating to publications of Office.] n. d. n. t. p. [3] pp.
- 17 No. 17. Letter to manufacturers of spray machinery. n. d. n. t. p. [3] pp.
- 18 No. 18. List of originators of fruits and vegetables in United States, with addresses and names of specialties. n. p. n. d. 12 pp.
- 19 No. 19. Experiments with fertilizers on fruits and vegetables, to study feeding capacities of plants and variations due to action of fertilizers. Mar., 1891. n. t. p. 4 pp.
- 20 No. 20. Organization list of agricultural experiment stations in U. S. June, 1891. n. p. n. d. 21 pp.
- 21 No. 21. Fifth annual convention of Association of American Agricultural Colleges and Experiment Stations; delegates and visitors registered. Aug. 13, 1891. n. p. n. d. [4] pp.
- 22 No. 22. [Letter relative to] subject index of literature of agricultural experiment stations and kindred institutions. Nov., 1891. n. t. p. [3] pp.

Tables

(Classification no.)

A10. EXPERIMENT STATIONS OFFICE—Continued

A10.4: Circulars—Continued

- 23¹ No. 23. Key to subject index of literature of agricultural experiment stations, and kindred institutions. Dec., 1893. n. p. n. d. [3] pp. 12°.
- 23² Same, revised. Apr. 25, 1902. [3] pp. 8°.
- 24 No. 24. Address list of agricultural experiment stations. [Dec., 1893.] (Circ.)
- 25¹ No. 25. Report on canaigre. May 15, 1894. n. t. p. 4 pp.
- 25² Same, rev. Nov. 20, 1897. n. t. p. 4 pp.
- 26 No. 26. Address list of agricultural colleges and experiment stations. n. d. n. t. p. 4 pp.
- 27 No. 27. Statistics of agricultural colleges and experiment stations, 1894. May 16, 1895. n. t. p. 18 pp.
- 28¹ No. 28. Report on broom corn. Jan. 8, 1896. n. t. p. 4 pp.
- 28² Same, rev. Nov. 20, 1897. n. t. p. 4 pp.
- 28³ Same, rev. Oct. 3, 1900. n. t. p. 4 pp.
- 29 No. 29. Work and expenditures of agricultural experiment stations. Mar. 10, 1896. 4 pp.
[Also printed as appendix to Annual report of Director, 1896. See A10.1:896, p. 141; and also for other prints, see A10.3:59, p. 96, and A10.3:74, p. 101.]
- 30 No. 30. Permanent elements in experiment station work; by A. C. True. May 26, 1896. n. t. p. 4 pp.
- 31 No. 31. Some books on agriculture and agricultural science, published 1893-96; [compiled by F. H. Hall]. Nov. 2, 1896. n. t. p. 176 pp., interleaved.
- 32¹ No. 32. Report of committee on methods of teaching agriculture. Dec. 8, 1896. n. t. p. 20 pp.
- 32² Same, rev. Nov. 15, 1897. n. t. p. 20 pp. (Also in A10.3:41, p. 57.)
- 33 No. 33. Civil service [reform] in Department of Agriculture; by Charles W. Dabney, jr. Jan. 26, 1897. n. t. p. 10 pp.
- 34 No. 34. Rules and apparatus for seed testing. Feb. 17, 1897. n. t. p. 9 pp.
- 35 No. 35. Statistics of land-grant colleges and agricultural experiment stations, 1896. Apr. 1, 1897. n. t. p. 18 pp.
- 36 No. 36. Constitution of Association of American Agricultural Colleges and Experiment Stations. [1897.] n. t. p. 4 pp.
- 37¹ No. 37. Second report of committee on methods of teaching agriculture. July 24, 1897. n. t. p. 4 pp.
- 37² Same, rev. Nov. 15, 1897. n. t. p. 4 pp.
- 38 No. 38. Some books on agriculture and sciences related to agriculture; published 1896-98. July 1, 1898. 45 pp.
- 39 No. 39. Third report of committee on methods of teaching agriculture. Nov. 21, 1898. n. t. p. 7 pp.
- 40 No. 40. Land-grant and other colleges and national defense; by Charles W. Dabney, jr. n. d. n. t. p. 15 pp.
- 41 No. 41. Fourth report of committee on methods of teaching agriculture. Sept. 28, 1899. n. t. p. 7 pp.
- 42 No. 42. German common school with a garden; by C. B. Smith. Oct. 28, 1899. n. t. p. 7 pp.
- 43¹ No. 43. [Report on] Food; Nutrients; Food economy. Oct. 31, 1899. n. t. p. 6 pp.
- 43² Same, revised. June 20, 1900. n. t. p. 6 pp.
- 44¹ No. 44. Agriculture experiment stations in U. S.; [by A. C. True. June 8, 1900.] n. p. n. d. 8 pp.
- 44² Same, revised, 1901. 11 pp.
- 45 No. 45. Fifth report of Committee on methods of teaching agriculture. Jan. 5, 1901. n. t. p. 8 pp.
- 46 No. 46. Functions and uses of food; by C. F. Langworthy. Apr. 5, 1901. n. t. p. 10 pp.
- 47 No. 47. [Outline of general plan of] card index of experiment station literature; by A. C. True. Apr. 19, 1902. n. t. p. 2 pp.
- 48 No. 48. What the Department of Agriculture is doing for Irrigation; by Elwood Mead. Oct. 14, 1902. n. t. p. 4 p.
- 49 No. 49. Secondary courses in agriculture. Oct. 17, 1902. n. t. p. 10 pp.

A10. EXPERIMENT STATIONS OFFICE—(Continued)**A10.5: Miscellaneous bulletins**

- 1 No. 1. Proceedings of 2d annual convention of Association of American Agricultural Colleges and Experiment Stations, Knoxville, Tenn. Jan. 1-3, 1889; edited by A. W. Harris and H. E. Alvord. 1889. 123 pp.
- 2 No. 2. Proceedings of 3d annual convention of Association of American Agricultural Colleges and Experiment Stations, Washington, D. C. Nov. 12-15, 1889; edited by A. W. Harris and H. E. Alvord. 1890. 142 pp.
- 3 No. 3. Proceedings of 4th annual convention of Association of American Agricultural Colleges and Experiment Stations, Champaign, Ill. Nov. 11-13, 1890; edited by A. W. Harris and H. E. Alvord. 1891. 156 pp.

[Series discontinued.]

A10.6: Experiment station record

[In the first three volumes of the Record the abstracts of the station reports were grouped by stations, arranged alphabetically by States. Beginning with Vol. 4, an arrangement by topics was adopted, each topic being edited by the department's expert in that line. The various topics usually treated in agricultural publications are all represented. With but few exceptions each number also contained a paper by some noted authority on a particular subject.]

- 1 V. 1. September, 1889-July, 1890. 1890. iii+358 pp.
 - No. 1. Sept., 1889, ix+56 pp.
 - No. 2. Nov., 1889, +57-115 pp.*
 - No. 3. Jan., 1890, +117-174 pp.*
 - No. 4. Mar., 1890, +175-243 pp.*
 - No. 5. May, 1890, +245-307 pp.*
 - No. 6. July, 1890, +309-358 pp.* [Title-page and table of contents for vol. 1, issued with this number. iii pp.]
- 2 V. 2. August, 1890-July, 1891. 1891. xxxii+853 pp.
 - No. 1. Aug., 1890, iv+40 pp.
 - No. 2. Sept., 1890, +41-88 pp.*
 - No. 3. Oct., 1890, iv+89-138 pp.
 - No. 4. Nov., 1890, v+139-184 pp.
 - No. 5. Dec., 1890, vi+185-264 pp.
 - No. 6. Jan., 1891, v+265-308 pp.
 - No. 7. Feb., 1891, vi+309-384 pp.
 - No. 8. Mar., 1891, vii+385-468 pp.
 - No. 9. Apr., 1891, +469-540 pp.*
 - No. 10. May, 1891, vii+541-624 pp.
 - No. 11. June, 1891, vii+625-698 pp.
 - No. 12. July, 1891, vi+699-853 pp. [Title-page and table of contents for vol. 2, issued with this number. xxxii pp.]
- 3 V. 3. August, 1891-July, 1892. 1892. xxxviii+1059 pp.
 - No. 1. Aug., 1891, vi+72 pp.
 - No. 2. Sept., 1891, vi+73-138 pp.
 - No. 3. Oct., 1891, vi+139-206 pp.
 - No. 4. Nov., 1891, vi+207-274 pp.
 - No. 5. Dec., 1891, vii+275-364 pp.
 - No. 6. Jan., 1892, vii+365-438 pp.
 - No. 7. Feb., 1892, vi+439-506 pp.
 - No. 8. Mar., 1892, v+507-584 pp.
 - No. 9. Apr., 1892, vii+585-664 pp.
 - No. 10. May, 1892, vii+665-758 pp.
 - No. 11. June, 1892, vii+759-840 pp.
 - No. 12. July, 1892, vii+841-970 pp.
 - [No. 13.] Index. pp. 979-1059. [Title-page and table of contents for vol. 3, issued with this number. xxxviii pp.]

*These early unbound numbers were not found, and in the bound volumes the preliminary lettered pages of contents, etc., have been eliminated. The pagination given is therefore not entirely complete.

Tables

Classification no.

A10. EXPERIMENT STATIONS OFFICE—Continued

A10.6: Experiment station record—Continued

- 4 V. 4. August, 1892–July, 1893. 1893. xxx+1086 pp.
 - No. 1. Aug., 1892, vii+110 pp.
 - No. 2. Sept., 1892, vii+111–230 pp.
 - No. 3. Oct., 1892, vi+231–322 pp.
 - No. 4. Nov., 1892, vi+323–394 pp.
 - No. 5. Dec., 1892, v+395–454 pp.
 - No. 6. Jan., 1893, vi+455–524 pp. (Errata slip.)
 - No. 7. Feb., 1893, vi+525–624 pp.
 - No. 8. Mar., 1893, vi+625–700 pp.
 - No. 9. Apr., 1893, vii+701–790 pp.
 - No. 10. May, 1893, vii+791–878 pp.
 - No. 11. June, 1893, vii+879–994 pp.
 - No. 12. July, 1893, [1]+995–1086 pp. [Title-page and table of contents for vol. 4, issued with this number. xxx pp.]
- 5 V. 5. 1893–1894. 1895. xxxiv+1227 pp.
 - No. 1. 1893, viii+138 pp.
 - No. 2. 1893, viii+139–268 pp.
 - No. 3. 1893, vii+269–358 pp.
 - No. 4. 1894, vi+359–452 pp.
 - No. 5. 1894, vi+453–546 pp.
 - No. 6. 1894, viii+547–666 pp.
 - No. 7. 1894, vi+667–744 pp.
 - No. 8. 1894, vi+745–830 pp.
 - No. 9. 1894, vii+831–940 pp.
 - No. 10. 1894, vii+941–1040 pp.
 - No. 11. 1894, v+1041–1106 pp.
 - No. 12. 1894, pp. 1107–1227. (Cover title only.) [Title-page and table of contents for vol. 5, issued with this number. xxxiv pp.]
- 6 V. 6. 1894–1895. 1896. xii+1134 pp.
 - No. 1. 1894, vi+88 pp. (Cover title only.)
 - No. 2. 1894, vi+89–174 pp. (Cover title only.)
 - No. 3. 1894, v+175–254 pp. (Cover title only.)
 - No. 4. 1895, vi+255–348 pp. (Cover title only.)
 - No. 5. 1895, viii+349–488 pp. (Cover title only.)
 - No. 6. 1895, vii+489–584 pp. (Cover title only.)
 - No. 7. 1895, vi+585–678 pp. (Cover title only.)
 - No. 8. 1895, v+679–758 pp. (Cover title only.)
 - No. 9. 1895, vi+759–850 pp. (Cover title only.)
 - No. 10. 1895, vi+851–944 pp. (Cover title only.)
 - No. 11. 1895, vi+945–1032 pp. (Cover title only.)
 - No. 12. 1895, pp. 1033–1134. (Cover title only.) [Title-page and table of contents for vol. 6, issued with this number. xii pp.]
- 7 V. 7. 1895–1896. 1897. xii+1092 pp.
 - No. 1. 1895, v+74 pp. (Cover title only.)
 - No. 2. 1895, vii+75–166 pp. (Cover title only.)
 - No. 3. 1895, vi+167–260 pp. (Cover title only.)
 - No. 4. 1895, v+261–342 pp. (Cover title only.)
 - No. 5. 1896, v+343–434 pp. (Cover title only.)
 - No. 6. 1896, vi+435–534 pp. (Cover title only.)
 - No. 7. 1896, v+535–632 pp. (Cover title only.)
 - No. 8. 1896, v+633–722 pp. (Cover title only.)
 - No. 9. 1896, v+723–814 pp. (Cover title only.)
 - No. 10. 1896, vi+815–901 pp. (Cover title only.)
 - No. 11. 1896, vi+903–996 pp. (Cover title only.)
 - No. 12. 1896, pp. 997–1092. (Cover title only.) [Title-page and table of contents for vol. 7, issued with this number. xii pp.]
- 8 V. 8. 1896–1897. 1897. xiv+1128 pp.
 - No. 1. 1896, vi+94 pp. (Cover title only.)
 - No. 2. 1896, vii+95–176 pp. (Cover title only.)
 - No. 3. 1896, vi+177–268 pp. (Cover title only.)
 - No. 4. 1897, vii+269–354 pp. (Cover title only.)
 - No. 5. 1897, vi+355–444 pp. (Cover title only.)

A10. EXPERIMENT STATIONS OFFICE—Continued**A10.6: Experiment station record—Continued**

- 8 V. 8. 1896-1897—Continued
 No. 6. 1897, vi+445-538 pp. (Cover title only.)
 No. 7. 1897, vi+539-638 pp. (Cover title only.)
 No. 8. 1897, v+639-738 pp. (Cover title only.)
 No. 9. 1897, vii+739-838 pp. (Cover title only.)
 No. 10. 1897, v+839-938 pp. (Cover title only.)
 No. 11. 1897, vi+939-1036 pp. (Cover title only.)
 No. 12. 1897, pp. 1037-1128. (Cover title only.) [Title-page and
 table of contents for vol. 8, issued with this number. xiv pp.]
- 9 V. 9. 1897-1898. 1898. xvi+1198 pp.
 No. 1. 1897, iv+100 pp. (Cover title only.)
 No. 2. 1897, vi+101-200 pp. (Cover title only.)
 No. 3. 1897, vi+201-300 pp. (Cover title only.)
 No. 4. 1897, vii+301-400 pp. (Cover title only.)
 No. 5. 1898, v+401-500 pp. (Cover title only.)
 No. 6. 1898, v+501-600 pp. (Cover title only.)
 No. 7. 1898, vi+601-700 pp. (Cover title only.)
 No. 8. 1898, vi+701-800 pp. (Cover title only.)
 No. 9. 1898, vii+801-900 pp. (Cover title only.)
 No. 10. 1898, v+901-1000 pp. (Cover title only.)
 No. 11. 1898, v+1001-1100 pp. (Cover title only.)
 No. 12. 1898, pp. 1101-1198. (Cover title only.) [Title-page and
 table of contents for vol. 9, issued with this number. xvi pp.]
- 10 V. 10. 1898. 1899. 1899. xvi+1208 pp.
 No. 1. 1898, v+100 pp. (Cover title only.)
 No. 2. 1898, vi+101-200 pp. 2 pl. (Cover title only.)
 No. 3. 1898, vi+201-300 pp. (Cover title only.)
 No. 4. 1898, viii+301-400 pp. (Cover title only.)
 No. 5. 1899, vi+401-500 pp. (Cover title only.)
 No. 6. 1899, vi+501-600 pp. (Cover title only.)
 No. 7. 1899, vii+601-700 pp. (Cover title only.)
 No. 8. 1899, vi+701-800 pp. (Cover title only.)
 No. 9. 1899, vi+801-900 pp. (Cover title only.)
 No. 10. 1899, vi+901-1000 pp. (Cover title only.)
 No. 11. 1899, vi+1001-1100 pp. (Cover title only.)
 No. 12. 1899, pp. 1101-1208. (Cover title only.) [Title-page and
 table of contents for vol. 10, issued with this number. xvi pp.]
- 11 V. 11. 1899-1900. 1900. xvi+1208 pp.
 No. 1. 1899, vi+100 pp. (Cover title only.)
 No. 2. 1899, vii+101-200 pp. (Cover title only.)
 No. 3. 1899, vii+201-300 pp. (Cover title only.)
 No. 4. 1899, vii+301-400 pp. (Cover title only.)
 No. 5. 1899, vi+401-500 pp. (Cover title only.)
 No. 6. 1900, v+501-600 pp. (Cover title only.)
 No. 7. 1900, v+601-700 pp. (Cover title only.)
 No. 8. 1900, v+701-800 pp. (Cover title only.)
 No. 9. 1900, vi+801-900 pp. (Cover title only.)
 No. 10. 1900, vi+901-1000 pp. (Cover title only.)
 No. 11. 1900, vii+1001-1100 pp. (Cover title only.)
 No. 12. 1900, pp. 1101-1208. (Cover title only.) [Title-page and
 table of contents for vol. 11, issued with this number. xvi pp.]
- 12 V. 12. 1900-1901. 1901. xvi+1189 pp.
 No. 1. 1900, vi+100 pp. (Cover title only.)
 No. 2. 1900, vi+101-200 pp. (Cover title only.)
 No. 3. 1900, viii+201-300 pp. (Cover title only.)
 No. 4. 1900, vi+301-400 pp. (Cover title only.)
 No. 5. 1901, vi+401-500 pp. (Cover title only.)
 No. 6. 1901, vi+501-600 pp. (Cover title only.)
 No. 7. 1901, vi+601-700 pp. (Cover title only.)
 No. 8. 1901, vi+701-800 pp. (Cover title only.)
 No. 9. 1901, vii+801-900 pp. (Cover title only.)
 No. 10. 1901, vii+901-1000 pp. (Cover title only.)

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Classification no.

A10. EXPERIMENT STATIONS OFFICE—Continued

A10.6: Experiment station record—Continued

- 12 V. 12. 1900-1901—Continued
 - No. 11. 1901, vii+1001-1100 pp. (Cover title only.)
 - No. 12. 1901, pp. 1101-1189. (Cover title only.) [Title-page and table of contents for vol. 12, issued with this number. xvi pp.]
- 13 V. 13. 1901-1902. 1902. xviii+1206 pp.
 - No. 1. 1901, viii+100 pp. (Cover title only.)
 - No. 2. 1901, ix+101-200 pp. (Cover title only.)
 - No. 3. 1901, ix+201-300 pp. (Cover title only.)
 - No. 4. 1901, vii+301-400 pp. (Cover title only.)
 - No. 5. 1902, viii+401-500 pp. (Cover title only.)
 - No. 6. 1902, viii+501-604 pp. (Cover title only.)
 - No. 7. 1902, ix+605-704 pp. 1 pl. (Cover title only.)
 - No. 8. 1902, ix+705-806 pp. (Cover title only.)
 - No. 9. 1902, viii+807-906 pp. 1 pl. (Cover title only.)
 - No. 10. 1902, viii+907-1008 pp. (Cover title only.)
 - No. 11. 1902, xi+1009-1112 pp. (Cover title only.)
 - No. 12. 1902, pp. 1113-1206. (Cover title only.) [Title-page and table of contents for vol. 13, issued with this number. xviii pp.]
- 14 V. 14. No. 1. Sept., 1902. x+100 pp. (Cover title only.)
 - No. 2. Oct., 1902, viii+101-204 pp. (Cover title only.)
 - No. 3. Nov., 1902, viii+205-308 pp. (Cover title only.)
 - No. 4. Dec., 1902, x+309-412 pp. (Cover title only.)

A10.6a: Experiment station record (separates)

[The papers mentioned in the note under A10.6: were each issued separately. References to them will be found under the proper headings in the index to this work.]

A10.7: Food and diet charts

- 1 No. 1. 1896.
- 2 No. 2. 1896.
- 3 No. 3. 1896.
- 4 No. 4. 1896.

A10.8: Irrigation investigation schedules

- 1 No. 1. [Postal card for collection of statistics.] n. d.
- 2 No. 2. Duty of water, general instructions to observers; by Elwood Mead. March 1, 1899. n. t. p. 4 pp.
- 3 No. 3. [Circular letter and blank form for answers to queries.] n. d. 2 sheets.
- 4 No. 4. [Circular letter and blank form for answers to queries.] May 1, 1899. 4 sheets.

A10.9: Hawaii agricultural experiment station bulletins

- 1 No. 1. Chickens and their diseases in Hawaii; by T. F. Sedgwick. 1901. 23 pp.
- 2 No. 2. Root rot of taro; by T. F. Sedgwick, Honolulu, Hawaii, Hawaiian Gazette Company, 1902. 21 pp.

A10.10: Alaska agricultural experiment stations bulletins

- 1 No. 1. Suggestions to pioneer farmers in Alaska; by C. C. Georgeson. 1902. n. t. p. 15 pp. 7 pl.

A10.11: Experiment station work (volumes)

- 1 Vol. 1. Experiment station work, vol. 1, including Experiment station work I-XX (Farmers' bulletins 56, 65, 69, 73, 78, 79, 84, 87, 92, 97, 103, 105, 107, 114, 119, 122, 124, 133, 144, 149). 1902. xiv+[628]+xviii pp.

[Title-page, table of contents, index, and glossary for this volume were issued as a pamphlet of xiv+xviii pages in order that the 20 numbers of Experiment station work which had been issued as Farmers' bulletins (A1.9:) might be brought together. As each bulletin bears its own paging, the references in the index are somewhat awkward; but in future provision will be made for the volumes by issuing an extra edition of the Farmers' bulletins which contain the numbers of Experiment station work, without the bulletin numbers and with continuous paging.]

Classification no. **A10. EXPERIMENT STATIONS OFFICE—Continued**

A10.12: Porto Rico agricultural experiment station bulletin

- No. 1 not issued 1902.
 2¹ No. 2. The changa, or mole cricket, in Porto Rico; by O. W. Barrett.
 1902. 20 pp.
 2² Same. In Spanish. (La changa, o'grillotalpa en Puerto Rico.) 1902.
 20 pp.

A11. FIBER INVESTIGATIONS OFFICE

[Fiber investigations were begun by the Division of Statistics in 1889, and in 1890 a Section of Fiber Investigations was created in the Division. January 1, 1891, the Section was made independent, under the name Office of Fiber Investigations, and so continued until June 30, 1898, when its work was assigned to the Division of Botany. For historical sketch of Office, see Yearbook, 1897 (A1.10:897), p. 224.]

A11.1: Annual reports

ANNUAL REPORT UPON FIBER INVESTIGATIONS

- 890 1890 (Dodge), [1]+451-470 pp. (Also in A1.1:890, p. 451.)
 891 1891 (Dodge), [1]+417-438 pp. 2 pl. (Also in A1.1:891, p. 417.)
 892 1892 (Dodge), [1]+359-376 pp. 6 pl. (Also in A1.1:892, p. 359.)
 893 1893 (Dodge), iii+567-584 pp. 1 pl. (Also in A1.1:893, p. 567.)
 1894 (Dodge). (In A1.1:894, p. 197.)
 1895 (Dodge). (In A1.1:895, p. 187.)

REPORT OF SPECIAL AGENT OF OFFICE OF FIBER INVESTIGATIONS

- 896 1896 (Dodge), [1]+27-28 pp. (Also in A1.1:896, p. 27.)
 897 1897 (Dodge), iii+21-24 pp. (Also in A1.1:897, p. 21.)

A11.2: General publications

[Publications which originated in this Office but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Office issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

A11.3: Bulletins

None issued.

A11.4: Circulars

None issued.

A11.5: Reports

- 1 No. 1. Report on flax, hemp, ramie, and jute, with considerations upon flax and hemp culture in Europe, report on ramie machine trials of 1889 in Paris, and present status of fiber industries of U. S.; by Charles Richards Dodge. 2d ed. 1892. 104 pp.
 [For 1st edition see A27.8:1.]
 2 No. 2. Recent facts regarding ramie industry in America, with brief statements relating to manufacture in Europe, etc.; by Charles Richards Dodge. 1893. 16 pp.
 [Reprinted from Rp. of Statistician, May, 1891.]
 3 No. 3. Sisal hemp culture in United States [Florida], with statements relating to industry in Yucatan and Bahama Islands, and brief considerations upon question of machinery for extracting fiber; by Charles Richards Dodge. 1891. 59 pp. 8 pl.
 4 No. 4. Flax culture for fiber in U. S., including special reports on flax culture in Ireland, Belgium, and Austria, with statements relative to the industry in Russia; by Charles Richards Dodge. 1892. 93 pp. 2 pl.
 5 No. 5. Leaf fibers of U. S., detailing results of recent investigations relating to Florida sisal hemp, the false sisal hemp plant of Florida, and other fiber-producing agaves, bowstring hemp, pineapple fiber, New England flax, and bear grass; by Chas. Richards Dodge. 1893. 73 pp. 10 pl.
 6 No. 6. Uncultivated bast fibers of U. S., including history of previous experiments with plants or fibers, and brief statements relating to allied species that are produced commercially in the old world; by Charles Richards Dodge. 1894. 54 pp. 5 pl.

Tables

Classification no.

A11. FIBER INVESTIGATION OFFICE—Continued

A11.5: Reports—Continued

- | | |
|----|---|
| 7 | No. 7. Cultivation of ramie in U. S., with statements concerning practice in foreign countries, cost of cultivation and percentages of yield, the machine question, and preparation of fiber for manufacture; by Chas. Richards Dodge. 1895. 63 pp. 5 pl. |
| 8 | No. 8. Culture of hemp and jute in U. S., with statements concerning practice in foreign countries, preparation of fiber for market, and remarks on the machine question; by Chas. Richards Dodge. 1896. 43 pp. 3 pl. |
| 9 | No. 9. Descriptive catalogue of useful fiber plants of world, including structural and economic classifications of fibers; by Chas. Richards Dodge. 1897. 361 pp. 13 pl. |
| 10 | No. 10. Flax culture for seed and fiber in Europe and America; by Charles Richards Dodge. 1898. 80 pp. 4 pl. |
| 11 | No. 11. Culture of hemp in Europe, including special consular report on growth of hemp in Italy; by Charles Richards Dodge. 1898. 29 pp. |

A12. FOREIGN MARKETS DIVISION

[Formerly Section of Foreign Markets. For historical sketch of Division, *see* Yearbook, 1897 (A1.103:97), p. 270.]

A12.1: Annual reports

- | | |
|-----|---|
| | 1897 (Hitchcock). (In A1.1:897, p. 177.) |
| 898 | 1898 (Hitchcock), iii+163-166 pp. (Also in A1.1:898, p. 163.) |
| 899 | 1899 (Hitchcock), iii+235-241 pp. (Also in A1.1:899, p. 235.) |
| 900 | 1900 (Hitchcock), iii+265-272 pp. (Also in A1.1:900, p. 265.) |
| 901 | 1901 (Hitchcock), iii+163-169 pp. (Also in A1.1:901, p. 163.) |
| 902 | 1902 (Hitchcock), [1]+377-382 pp. (Also in A1.1:902, p. 377.) |

A12.2: General publications

[Publications which originated in this Division but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Division issued only as Congressional documents are noted in chr. nological order in the Appendix to this work.]

A12.3: Bulletins

- | | |
|----------------|---|
| 1 ¹ | No. 1. World's markets for American products: Great Britain and Ireland. 1895. 93 pp. |
| 1 ² | Same, supplement. 1895. [2]+95-155 pp. |
| 2 | No. 2. World's markets for American products: German Empire. 1895. 91 pp. 1 pl. |
| 3 | No. 3. World's markets for American products: France. 1895. 74 pp. |
| 4 | No. 4. World's markets for American products: Canada. 1895. 67 pp. |
| 5 | No. 5. World's markets for American products: Netherlands. 1895. 76 pp. |
| 6 | No. 6. World's markets for American products: Belgium. 1895. 90 pp. |
| 7 ¹ | No. 7. World's markets for American products: Norway. 1896. 68 pp. |
| 7 ² | Same, revised edition. 1898. 68 pp. |
| 8 ¹ | No. 8. World's markets for American products: Sweden. 1896. 92 pp. |
| 8 ² | Same, revised. 1898. 93 pp. |
| 9 | No. 9. Trade of Denmark; by Frank H. Hitchcock. 1900. 88 pp. 1 pl. |
| 10 | No. 10. Our foreign trade in agricultural products during five fiscal years, 1893-97; by Frank H. Hitchcock. 1898. 38 pp. |
| 11 | No. 11. Spain's foreign trade; by Frank H. Hitchcock. 1898. 47 pp. |
| 12 | No. 12. Our trade with Spain, 1888-97; by Frank H. Hitchcock. 1898. 47 pp. |
| 13 | No. 13. Trade of Puerto Rico; by Frank H. Hitchcock. 1898. 84 pp. |
| 14 | No. 14. Trade of Philippine islands; by Frank H. Hitchcock. 1898. 160 pp. 1 pl. |
| 15 | No. 15. Our foreign trade in agricultural products, 1894-98; by Frank H. Hitchcock. 1899. 45 pp. |

A12.3: Bulletins—Continued

- 16 No. 16. Distribution of agricultural exports of U. S., 1894-98; by Frank H. Hitchcock. 1899. 153 pp.
- 17 No. 17. Sources of agricultural imports of U. S., 1894-1898; by Frank H. Hitchcock. 1900. 118 pp.
- 18 No. 18. Our trade with Japan, China, and Hongkong, 1889-1899; by Frank H. Hitchcock. 1900. 168 pp.
- 19 No. 19. Our foreign trade in agricultural products, 1890-1899; by Frank H. Hitchcock. 1900. 62 pp.
- 20 No. 20. Agricultural exports of U. S., by countries, 1895-1899; by Frank H. Hitchcock. 1900. 88 pp.
- 21 No. 21. Agricultural imports of U. S., by countries, 1895-1899; by Frank H. Hitchcock. 1900. 74 pp.
- 22 No. 22. Our trade with Scandinavia, 1890-1900; by Frank H. Hitchcock. 1901. 124 pp.
- 23 No. 23. Our foreign trade in agricultural products, 1891-1900; by Frank H. Hitchcock. 1900. 61 pp.
- 24 No. 24. Sources of agricultural imports of U. S., 1896-1900; by Frank H. Hitchcock. 1901. 120 pp.
- 25 No. 25. Distribution of agricultural exports of U. S., 1896-1900; by Frank H. Hitchcock. 1901. 182 pp.
- 26 No. 26. Agricultural imports of the United Kingdom, 1896-1900; by Frank H. Hitchcock. 1902. 227 pp.
- 27 No. 27. Our foreign trade in agricultural products, 1892-1901; by Frank H. Hitchcock. 1902. 67 pp.
- 28 No. 28. Sources of agricultural imports of U. S., 1897-1901; by Frank H. Hitchcock. 1902. 132 pp.
- 29 No. 29. Distribution of agricultural exports of U. S., 1897-1901; by Frank H. Hitchcock. 1902. 202 pp.

A12.4: Circulars

- 1 No. 1. Peaches and other fruits in England. June 1, 1895. n. t. p. 2+ [1] pp.
- 2¹ No. 2. American dried apples in German Empire. n. t. p. n. d. 4 pp.
- 2² Same, 2d series [edition]. n. t. p. 3+ [1] pp.
- 3 No. 3. Imports and exports for 1893 and 1894. Aug. 19, 1895. n. t. p. 4 pp.
- 4 No. 4. Example for American farmers and dairymen. n. t. p. n. d. 3 pp.
- 5 No. 5. Treaty of Shimonoseki between China and Japan of April 17, 1895, and our possibilities of trade with those countries. Oct. 16, 1895. n. t. p. 7 pp.
- 6 No. 6. Imports and exports for 1893, 1894, and 1895. n. d. n. t. p. 6 pp.
- 7 No. 7. Extension of markets for American feed stuffs. n. d. n. t. p. 8 pp.
- 8 No. 8. Manchester district of England as market for American products. n. d. n. t. p. 8 pp.
- 9 No. 9. Imports and exports for 1893, 1894, 1895, and 1896. n. d. n. t. p. 8 pp.
- 10 No. 10. Course of wheat production and exportation in United States, Canada, Argentina, Uruguay, Russia, and British India, 1880-96. Oct. 23, 1896. n. t. p. 8 pp.
- 11 No. 11. Agricultural products imported and exported by United States, 1892-96. Jan. 9, 1897. n. t. p. 8 pp.
- 12 No. 12. Sources of principal agricultural imports of United States during 5 years ended June 30, 1896. Jan. 22, 1897. n. t. p. 24 pp.
- 13 No. 13. Distribution of principal agricultural exports of United States during 5 years ended June 30, 1896. Feb. 6, 1897. n. t. p. 24 pp.
- 14 No. 14. Hamburg as market for American products. Mar. 2, 1897. n. t. p. 10 pp.
- 15 No. 15. Exports of cotton from Egypt. May 12, 1897. n. t. p. 7 pp.
[Reprinted from Bull. 2, Experiment Stations Office.]
- 16 No. 16. Our trade with Cuba from 1887 to 1897. June 10, 1897. n. t. p. 30 pp.

Tables

Classification no.

A12. FOREIGN MARKETS DIVISION—Continued

A12.1: Circulars—Continued

- | | |
|-----------------|---|
| 17 | No. 17. United States wheat for Eastern Asia. June 22, 1897. n. t. p. 8 pp. |
| 18 ¹ | No. 18. Hawaiian commerce, from 1887 to 1897. July 10, 1897. n. t. p. 37 pp. |
| 18 ² | Same, revised. May 12, 1898. n. t. p. 37 pp. |
| 19 | No. 19. Austria-Hungary as factor in world's grain trade; Recent use of American wheat in that country. Oct. 5, 1897. n. t. p. 23 pp. |
| 20 | No. 20. Agricultural imports and exports, 1893-97. Jan. 22, 1898. n. t. p. 15 pp. |
| 21 | No. 21. Agricultural imports and exports, 1894-98. Apr. 24, 1899. n. t. p. 16 pp. |
| 22 | No. 22. Agricultural imports and exports, 1895-99. Apr. 23, 1900. n. t. p. 16 pp. |
| 23 | No. 23. Agricultural imports and exports, 1896-1900. Feb. 20, 1901. 16 pp. |
| 24 | No. 24. Agricultural imports and exports, 1897-1901. Apr. 10, 1902. n. t. p. 16 pp. |

A13. FORESTRY BUREAU

[Formerly Division of Forestry. For historical sketch, *see* Yearbook 1897 (A1.10:897), p. 143.]

A13.1: Annual reports

- | | |
|-----|--|
| | REPORT OF CHIEF OF DIVISION OF FORESTRY |
| | 1883 (Egleston). (In A1.1:883, p. 444.) |
| | 1884 (Egleston). (In A1.1:884, p. 137.) |
| | 1885 (Egleston). (In A1.1:885, p. 183.) |
| 886 | 1886 (Fernow), [1]+149-226 pp. 1 pl. (Also in A1.1:886, p. 149.) |
| 887 | 1887 (Fernow), [1]+156 pp. (Abstract (pp. 605-616. 1 map.) In A1.1:887, p. 605.) |
| 888 | 1888 (Fernow), iv+597-641 pp. 1 pl. (Also in A1.1:888, p. 597.) |
| 889 | 1889 (Fernow), iv+273-330 pp. (Also in A1.1:889, p. 273.) |
| 890 | 1890 (Fernow), iii+193-236 pp. (Also in A1.1:890, p. 193.) |
| 891 | 1891 (Fernow), [1]+191-229 pp. 8 pl. (Also in A1.1:891, p. 191.) |
| 892 | 1892 (Fernow), iii+293-358 pp. 6 pl. (Also in A1.1:892, p. 293.) |
| 893 | 1893 (Fernow), iv+303-363 pp. 3 pl. (Also in A1.1:893, p. 303.) |
| | 1894 (Fernow). (In A1.1:894, p. 133.) |
| | 1895 (Fernow). (In A1.1:895, p. 149.) |
| 896 | 1896 (Fernow), iii+83-88 pp. (Also in A1.1:896, p. 83.) |
| 897 | 1897 (Fernow), ii+141-146 pp. (Also in A1.1: 897, p. 141.) |
| 898 | 1898 (Pinchot), iii+169-173 pp. (Also in A1.1:898, p. 169.) |
| | REPORT OF FORESTER. |
| 899 | 1899 (Pinchot), iii+93-100 pp. (Also in A1.1:899, p. 93.) |
| 900 | 1900 (Pinchot), iii+ 103-110 pp. (Also in A1.1:900, p. 103.) |
| 901 | 1901 (Pinchot), iii+325-339 pp. (Also in A1.1:901, p. 325.) |
| 902 | 1902 (Pinchot), iv+109-136 pp. (Also in A1.1:902, p. 109.) |

A13.2: General publications

[Publications which originated in this Bureau, but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Bureau issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

- | | |
|-----|--|
| B48 | Big trees of California. 1900. 30 pp. 17 pl.
[Also issued as Bulletin no. 28. <i>See</i> A13.3:28.] |
| F76 | Forest growth. Letter to Secretary of Agriculture regarding forest growth and timber consumption; by B. E. Fernow. Apr. 5, 1893. n. t. p. 3 pp. |
| L97 | Lumber and wood trade. Letter from agent of Forestry Division requesting information as to extent of lumber and wood trade. July, 1883. f ^o sheet.* |
| P65 | Pines. Instructions for collection of test pieces of pines for timber investigations. [1892.] n. t. p. 4 pp. |

*No copy found.

A13. FORESTRY BUREAU—(Continued)

Classification no.

A13.2: General publications—(Continued)

- R13 Railroads. Alphabetical list of land-grant and bond-aided railroads in U. S. (Extract from Army general orders, no. 140, and supplement.) 1902. 4 pp.
- St2 Statement of B. E. Fernow, Chief of Division of Forestry, Agriculture Department, before House Committee on Agriculture. Feb. 16, 1895. n. t. p. 4 pp.
- T71 Trees of Washington, D. C.; compliments of Forestry Division, G. B. Sudworth, botanist, B. E. Fernow, chief. [Wash., Bell Bros., 1891.] [16] pp. [2] maps. oblong 24° pap.*

A13.3: Bulletins.

- 1 No. 1. Relation of railroads to forest supplies and forestry; with appendices on structure of some timber ties, their behavior, and cause of their decay in road-bed; on wood preservation; on metal ties; and on use of spark arresters. 1887. 149 pp. 19 pl.
- 2¹ No. 2. Forest conditions of Rocky Mountains, and other papers; with maps showing location of forest areas on Rocky Mountain range. 1888. 252+[1] pp. 1 pl. 2 folded tables. 1 map.
- 2² Same. 2d edition. 1889.*
- 3 No. 3. Preliminary report on use of metal track on railways as substitute for wooden ties, by E. E. Russell Tratman; to which is added a report of experiments in wood seasoning by Chicago, Burlington and Quincy Railroad Company, and other notes; compiled by B. E. Fernow. 1889. 79 pp.
- 4 No. 4. Substitution of metal for wood in railroad ties, by E. E. Russell Tratman; with discussion on practicable economies in use of wood for railway purposes, by B. E. Fernow. 1890. 363 pp. 31 pl.
[For supplemental matter, see Bull. 9.]
- 5 No. 5. What is forestry? by B. E. Fernow. 1891. 52 pp.
- 6 No. 6. Timber physics: pt. 1, Preliminary report: Need of investigation; Scope and historical development of science of "Timber Physics"; Organization and methods of timber examinations in Division of Forestry; compiled by B. E. Fernow. 1892. iii+57+iv pp. 6 pl. 4°
[For pt. 2, see Bull. 8.]
- 7¹ No. 7. Forest Influences: (1) Introduction and summary of conclusions, by B. E. Fernow; (2) Review of forest meteorological observations, a study preliminary to discussion of relation of forests to climate, by M. W. Harrington; (3) Relation of forests to water supplies, by B. E. Fernow; (4) Notes on sanitary significance of forests, by B. E. Fernow. Appendices: (1) Determination of true amount of precipitation and its bearing on theories of forest influences, by Cleveland Abbe; (2) Analysis of rainfall with relation to surface conditions, by George E. Curtis. 1893. 197 pp.
- 7² Same, reprinted 1902. 197 pp.
- 8 No. 8. Timber physics: pt. 2, Progress report: Results of investigations on long-leaf pine (*Pinus palustris*). 1893. vii+92 pp. 12 pl. 4°
[For pt. 1, see Bulletin 6.]
- 9 No. 9. Use of metal railroad ties and preservative processes and metal tie-plates for wooden ties; by E. E. Russell Tratman. Supplementary to [Bulletin no. 4] report on substitution of metal for wood in railroad ties, 1890. 1894. 363 pp. 5 pl.
- 10 No. 10. Timber, an elementary discussion of characteristics and properties of wood; by Filibert Roth. 1895. 88 pp.
- 11 No. 11. Some foreign trees for Southern States. 1895. 32 pp. 3 pl.
- 12¹ No. 12. Economical designing of timber trestle bridges; by A. L. Johnson. 1896. 57 pp.
- 12² Same, 1902. 57 pp.
- 13¹ No. 13. Timber pines of southern United States, by Charles Mohr; with discussion of structure of their wood, by Filibert Roth. 1896. 160 pp. 27 pl. 4°.
- 13² Same, rev. ed. 1897. 176 pp. 27 pl. 4°

*No copy found.

Tables

Classification no.

A13. FORESTRY BUREAU—Continued

A13.3: Bulletins—Continued

- 14 No. 14. Nomenclature of arborescent flora of United States; by George B. Sudworth. 1897. viii + 419 pp.
- 15 No. 15. Forest growth and sheep grazing in Cascade Mountains of Oregon; by Frederick V. Coville. 1898. 54 pp.
- 16 No. 16. Forestry conditions and interests of Wisconsin, by Filibert Roth; with a discussion by B. E. Fernow. 1898. 76 pp. 1 pl.
- 17 No. 17. Checklist of forest trees of United States, their names and ranges; by George B. Sudworth. 1898. 144 pp.
- 18 No. 18. Experimental tree planting in the plains; by Charles A. Keffer. 1898. 94 pp. 5 pl.
- 19 No. 19. Osier culture; by John M. Simpson. 1898. 27 pp.
- 20 No. 20. Measuring the forest crop; by A. K. Mlodziansky. 1898. 71 pp. 2 pl.
- 21 No. 21. Systematic plant introduction, its purposes and methods; by David G. Fairchild. 1898. 24 pp.
- 22 No. 22. White pine, by V. M. Spalding, rev. and enlar. by B. E. Fernow; with contributions: Insect enemies of white pine, by F. H. Chittenden; Wood of white pine, by Filibert Roth. 1899. 185 pp. 14 pl. 4°
- No. 23. Not issued 1902.
- 24¹ No. 24. Primer of forestry; by Gifford Pinchot. Part 1, The forest. 1899. 88 pp. 48 pl. 12°
- 24² Same, 56th Cong., 1st sess., H. doc. 727; serial no. 4007.
- 24³ Same, 2d edition, authorized by Congress, April 18, 1900. 1900. 88 pp. 48 pl. 12°
- 25 No. 25. Notes on forest conditions of Porto Rico; by Robert T. Hill. 1899. 48 pp. 9 pl.
- 26 No. 26. Practical forestry in the Adirondacks; by Henry S. Graves. 1899. 85 pp. 20 pl.
- 27 No. 27. Practical tree planting in operation; by J. W. Tourney. 1900. 27 pp. 4 pl.
- 28 No. 28. Short account of big trees of California. 1900. 30 pp. 17 pl.
- Same, 56th Cong., 1st. sess., S. doc. 393; serial no. 3877.
- See also A13.2: B48.
- 29 No. 29. Forest nursery: collection of tree seeds and propagation of seedlings; by Geo. B. Sudworth. 1900. 63 pp. 6 pl.
- 30 No. 30. Forest-working plan for Township 40, Totten and Crossfield purchase, Hamilton county, N. Y. State forest preserve; by Ralph S. Hosmer and Eugene S. Bruce; preceded by discussion of conservative lumbering and water supply by Frederick H. Newell. 1901. 64 pp. 11 pl. 4 maps.
- 31 No. 31. Notes on red cedar; by Charles Mohr. 1901. 37 pp. 3 pl.
- 32 No. 32. Working plan for forest lands near Pine Bluff, Ark.; by Frederick E. Olmsted. 1902. 48 pp. 10 pl. large 8°
- 33 No. 33. Western hemlock; by Edward T. Allen. 1902. 55 pp. 13 pl.
- 34 No. 34. History of lumber industry in State of New York; by William F. Fox. 1902. 59 pp. 20 pl. large 8°
- 35 No. 35. Eucalypts cultivated in U. S.; by Alfred James McClatchie. 1902. 106 pp. 92 pl. large 8°
- 36¹ No. 36. The woodsman's handbook; by Henry Solon Graves. Pt. 1. 1902. 148 pp. 1 pl. 16°
- 36² Same, errata. n. d. n. t. p. 4 pp. 16°
- 37 No. 37. Hardy catalpa. 1. The hardy catalpa in commercial plantations, by William L. Hall; 2. Diseases of hardy catalpa, by Herman von Schrenk. 1902. 58 pp. 31 pl. large 8°

A13.3^a: Bulletins (separates)

[Insect enemies of white pine, by F. H. Chittenden, issued as separate from Bulletin no. 22, is the only separate of which we have any record.]

A13.4: Circulars

- 1 [No. 1.] Request to educators for cooperation. 1886. 4 pp.*
- 2 [No. 2.] To educational men. 1887. (Circ.)

* No copy found.

A13. FORESTRY BUREAU—Continued

Classifica-
tion no.

A13.4: Circulars—Continued

- 3 [No. 3.] Increasing durability of timber; information to wood consumers; by Norman J. Colman. 1887. [4] pp.
- 4 [No. 4.] For information of railroad managers [chestnut oak for ties; by Norman J. Colman]. Dec., 1887. n. t. p. 3 pp. 4°
- 5 No. 5. Arbor day planting in Eastern States. n. d. n. t. p. [4] pp. 4°
- 6 No. 6. Instructions for growing tree seedlings. n. d. n. t. p. [4] pp. 4°
- 7 No. 7. Government timber tests; by B. E. Fernow. n. d. n. t. p. [4] pp.
- 8 No. 8. Strength of "boxed" or "turpentine" timber; by B. E. Fernow. n. d. n. t. p. 3 pp.
- 9 No. 9. Effect of turpentine gathering on timber of pine; by B. E. Fernow. n. d. (Circ.)
- 10 No. 10. Suggestions to lumbermen of U. S. in behalf of more rational forest management; by B. E. Fernow. n. d. n. t. p. 8 pp.
- 11 No. 11. Facts and figures regarding our forest resources, briefly stated; by B. E. Fernow. Feb. 10, 1896. n. t. p. 8 pp.
- 12 No. 12. Southern pine; mechanical and physical properties [investigations of J. B. Johnson and Filibert Roth]; by B. E. Fernow. Mar. 6, 1896. n. t. p. 12 pp. 4°
- 13 No. 13. Forest fire legislation in United States; by B. E. Fernow. Mar. 16, 1896. n. t. p. 8 pp.
- 14 No. 14. Is protection against forest fires practicable? by B. E. Fernow. n. d. n. t. p. 4 pp.
- 15 No. 15. Summary of mechanical tests on 32 species of American woods; by B. E. Fernow. n. d. n. t. p. 12 pp. 4°
- 16 No. 16. Age of trees and time of blazing determined by annual rings; by B. E. Fernow. Aug. 18, 1897. n. t. p. 11 pp.
- 17¹ No. 17. Recent legislation on State forestry commissions and forest reserves; by B. E. Fernow. n. d. n. t. p. 15 pp.
- 17² Same, revised. Dec. 15, 1897. n. t. p. 16 pp.
- 18 No. 18. Progress in timber physics; by B. E. Fernow. Jan. 2, 1898. n. t. p. 20 pp. 4°
- 19 No. 19. Progress in timber physics; by Filibert Roth. May 25, 1898. n. t. p. 24 pp. 4°
- 20 No. 20. Increasing durability of timber; by B. E. Fernow. May 25, 1898. n. t. p. 5 pp.
- 21 No. 21. Practical assistance to farmers, lumbermen, and others in handling forest lands; by Gifford Pinchot. Oct. 8, 1898. n. t. p. 5 pp.
- 22¹ No. 22. Practical assistance to tree planters; by Gifford Pinchot. July 8, 1899. n. t. p. 11 pp.
- 22² Same, rev. ed. Feb. 15, 1901. n. t. p. 12 pp.
- 23 No. 23. Suggestions to prospective forest students; by Gifford Pinchot. Jan. 15, 1902. n. t. p. 5 pp.

A13.5: Report on forestry

[Vols. 1 and 2 were published prior to the establishment of the Forestry Division, but are classified here in order to bring all the volumes together, as vols. 3 and 4 were prepared and transmitted by the chief of the Forestry Division.]

- 1 [V. 1.] 1878; by Franklin B. Hough. 650 pp.
- 2 V. 2. 1880; by Franklin B. Hough. xvi+618 pp.
Same, 46th Cong., 2d sess., H. ex. doc. 37; serial no. 1922.
- 3 [V. 3.] 1882; by Franklin B. Hough. xii+318 pp.
Same, 47th Cong., 1st sess., H. mis. doc. 38; serial no. 2046.
- 4 V. 4. 1884; by Nathaniel H. Egleston. [1]+421 pp. 4 pl.

A13.6: Press bulletins (circ.)

[Notes on work and publications relative to forestry, issued for use of press.]

- 1 No. 1. Feb. 3, 1900.
- 2 No. 2. Feb. 17, 1900.
- 3 No. 3. Mar. 3, 1900.
- 4 No. 4. Mar. 23, 1900.
- 5 No. 5. Apr. 9, 1900.
- 6 No. 6. May 2, 1900.

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number.

A13. FORESTRY BUREAU—Continued

A13.6: Press bulletins—Continued

7	No. 7. June 6, 1900.
8	No. 8. July 7, 1900.
8	No. 8. New York supp., July 7, 1900.
9	No. 9. Aug. 11, 1900.
10	No. 10. Nov. 15, 1900.
11	No. 11. Feb. 7, 1901.
12	No. 12. Mar. 7, 1901.
13	No. 13. Apr. 8, 1901.
14	No. 14. July 8, 1901.
15	No. 15. Oct. 30, 1901.
16	No. 16. Jan. 10, 1902.
17	No. 17. July 16, 1902.
18	No. 18. Aug. 12, 1902.
19	No. 19. Aug. 12, 1902.
20	No. 20. Sept. 5, 1902.
21	No. 21. Sept. 30, 1902.
22	No. 22. Sept. 30, 1902.
23	No. 23. Nov. 14, 1902.
24	No. 24. Damage by recent forest fires. n. d.
25	No. 25. Dec. 10, 1902.

A14. GARDENS AND GROUNDS DIVISION

[Merged into Bureau of Plant Industry July 1, 1901, *see* A19. For historical sketch of Division, *see* Yearbook, 1897 (A1.10:897), p. 180.]

A14.1: Annual reports

	SUPERINTENDENT OF EXPERIMENTAL GARDEN.
	1862 (Saunders). (In A1.1:862, p. 540.)
	1863 (Saunders). (In A1.1:863, p. 547.)
	1864 (Saunders). (In A1.1:864, p. 605.)
	1865 (Saunders). In A1.1:865, p. 13.)
	1866 (Saunders). In A1.1:866, p. 17.)
	1867 (Saunders). (In A1.1:867, p. 23.)
	SUPERINTENDENT OF GARDENS AND GROUNDS.
	1868 (Saunders). (In A1.1:868, p. 118.)
	1869 (Saunders). (In A1.1:869, p. 79.)
	1870 (Saunders). (In A1.1:870, p. 16.)
	1871 (Saunders). (In A1.1:871, p. 102.)
	1872 to 1875, no reports printed.
	1876 (Saunders). (In A1.1:876, p. 61.)
	1877 (Saunders). In A1.1:877, p. 47.)
	1878 (Saunders). (In A1.1:878, p. 194.)
	1879 (Saunders). (In A1.1:879, p. 359.)
	1880, no report printed.
	1881 and 1882 (Saunders). (In A1.1:881-2, p. 215.)
	1883 (Saunders). (In A1.1:883, p. 181.)
	1884, no report printed.
	1885 (Saunders). (In A1.1:885, p. 33.)
	1886 (Saunders). (In A1.1:886, p. 687.)
	1887 (Saunders). (In A1.1:887, p. 673.)
	1888, no report printed.
	1889 (Saunders). (In A1.1:889, p. 111.)
890	1890 (Saunders). [1]+557-596 pp. (Also in A1.1:890, p. 557.)
891	1891 (Saunders). [1]+463-484 pp. 7 pl. (Also in A1.1:891, p. 463.)
892	1892 (Saunders). iii+377-402 pp. (Also in A1.1:892, p. 377.)
893	1893 (Saunders). iii+365-388 pp. (Also in A1.1:893, p. 365.)
	1894 (Saunders). (In A1.1:894, p. 207.)
	1895 (Saunders). (In A1.1:895, p. 189.)
	1896, no report printed.
	1897 (Saunders). (In A1.1:897, p. 159.)
	1898 (Saunders). (In A1.1:898, p. 143.)
899	1899 (Saunders). iii+91-92 pp. (Also in A1.1:899, p. 91.)

Classification no. **A14. GARDENS AND GROUNDS DIVISION—Continued**

A14.1: Annual reports—Continued

- 900 SUPERINTENDENT OF GARDENS AND GROUNDS—Continued
1900 (Galloway). ii + 273–278 pp. (Also in A1.1:900, p. 273.)
1901 (Corbett). [This final report of the division was made through the chief of the Bureau of Plant Industry, forming part of his annual report for 1901. See A1.1:901, p. 81; also A19.1:901, p. 81.]

A14.2: General publications

None issued.

A14.3: Bulletins

None issued.

A14.4: Circulars

- 1 No. 1. An experiment in tea culture; report on tea gardens of Dr. Charles U. Shepard, Pinehurst, S. C., by William Saunders. [1897.] n. t. p. 10 pp.

A15. IRRIGATION INQUIRY OFFICE.

[Discontinued June 30, 1896.]

A15.1: Annual reports

SPECIAL AGENT IN CHARGE OF ARTESIAN AND UNDERFLOW INVESTIGATIONS AND OF IRRIGATION INQUIRY.

- 890 1890 (Hinton). [1] + 471–488 pp. map. (Also in A1.1:890, p. 471.)
891 1891 (Hinton). [1] + 439–450 pp. map. (Also in A1.1:891, p. 439.)
1892, no report printed.

SPECIAL AGENT IN CHARGE OF IRRIGATION INQUIRY.

1893 (Irish). (In A1.1:893, p. 593.)

CHIEF OF OFFICE OF IRRIGATION INQUIRY.

1894 (Irish). (In A1.1:894, p. 219.)

1895 (Irish). (In A1.1:895, p. 183.)

A15.2: General publications

[Publications which originated in this Office, but which were published in a numbered series of the Secretary's Office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Office issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

- Ar7 Artesian wells. Report on preliminary investigation to determine proper location of artesian wells within area of ninety-seventh meridian, and east of foothills of Rocky Mountains; [by Richard J. Hinton, and others]. 1890. 398 pp. 15 pl.

Same, 51st Cong., 1st sess., S. ex. doc. 222; serial no. 2689.

- Ir7¹ Irrigation in U. S.; by Richard J. Hinton. 1887. 240 pp. 9 pl.

Same, 49th Cong., 2d sess., S. mis. doc. 15; serial no. 2450.

- Ir7² Irrigation. [Report on irrigation.] (52d Cong., 1st sess., S. ex. doc. 41, in 4 parts.) 1893. (No serial title-page; 4 pts. bound in one vol.)

Contents:

Pt. 1. Irrigation and cultivation of soil thereby, with physical data, conditions, and progress within U. S. for 1891; by Richard J. Hinton. 1893. 459 pp. 52 pl.

Pt. 2. Artesian and underflow investigation: Final report of Chief Engineer Edwin S. Nettleton. 1893. 116 pp. 29 pl.

Pt. 3. Final geological reports of artesian and underflow investigation between 97th meridian of longitude and foothills of Rocky Mountains; by Robert Hay. 1893. 209 pp. 41 pl.

Pt. 4. Final report on mid-plains division of artesian and underflow investigation between 97th meridian of longitude west of Greenwich and foothills of Rocky Mountains, by J. W. Gregory; and special report on certain artesian conditions in State of South Dakota; by Fred F. B. Colhn. 1893. 61 pp. 8 pl.

- Ir7¹ Progress report on irrigation in U. S. for 1890, by R. J. Hinton. Pt. 1. 1891. 337 pp. 5 pl.

- Ir7² Same, pt. 2. Progress report of artesian and underflow investigation between ninety-seventh degree of west longitude and foothills of Rocky Mountains; by E. S. Nettleton. 1891. 14 pp. 12 maps (called appendixes).

Same, 51st Cong., 2d sess., S. ex. doc. 53, pts. 1 and 2; serial no. 2818.

Tables

Classification no.

A15. IRRIGATION INQUIRY OFFICE—Continued

A15.3: Bulletins

- 1 No. 1. Abstract of laws of the several States and Territories on irrigation and water rights; compiled by O. A. Critchett. 1893. 180 pp.

A15.4: Circulars

None issued.

A16. LABOR EMPLOYMENT BOARD

A16.1: Annual reports

None issued.

A16.2: General publications

- In7 Instructions to applicants for appointment to position of mere unskilled laborer in U. S. Department of Agriculture, at Washington, D. C., July 18, 1902. n. t. p. 3 pp.
R26 Regulations governing appointment to position of mere unskilled laborer under Department of Agriculture in D. C., July 2, 1902. n. t. p. 4 pp.

A16.3: Bulletins

None issued.

A16.4: Circulars

None issued.

A17. LIBRARY

[For historical sketch of Library *see* Yearbook, 1897 (A1.10:897), p. 220.]

A17.1: Annual reports

- 1894 (Cutter) (In A1.1: 894, p. 203.)
1895 to 1897, no reports printed.
1898 (Cutter) (In A1.1: 898, p. 167.)
899 1899 (Cutter) iii+213-214 pp. (Also in A1.1:899, p. 213.)
900 1900 (Cutter) ii+111-112 pp. (Also in A1.1:900, p. 111.)
901 1901 (Clark) iii+171-173 pp. (Also in A1.1:901, p. 171.)
902 1902 (Clark) ii+235-239 pp. (Also in A1.1:902, p. 235.)

A17.2: General publications

[The Library issues printed Catalogue cards (author and subject analyticals) for the publications of the Department, its endeavor being to fully catalogue such publications. These cards are supplied to libraries by the Department.]

A17.3: Bulletins

- 1 No. 1. Accessions to Department Library, [Jan.-Mar.] 1894. Apr., 1894. n. t. p. 12 pp. 4°
2 No. 2. Periodicals and society publications, currently [1894] received at Department Library, June, 1894. n. t. p. 8 pp. 4°
3 No. 3. Accessions to Department Library, April-June, 1894. Aug., 1894. n. t. p. 11 pp. 4°
4 No. 4. Accessions to Department Library, July-Oct., 1894. Dec., 1894. n. t. p. 9 pp. 4°
5 No. 5. Accessions to Department Library, Nov.-Dec., 1894. Feb., 1895. n. t. p. 7 pp. 4°
6 No. 6. Accessions to Department Library, Jan.-Mar., 1895. May, 1895. n. t. p. 12 pp. 4°
7 No. 7. Accessions to Department Library, Apr.-June, 1895. Aug., 1895. n. t. p. 11 pp. 4°
8 No. 8. Accessions to Department Library, July-Sept., 1895. Nov., 1895. n. t. p. 11 pp. 4°
9 No. 9. List of publications of U. S. Department of Agriculture from 1841 to June 30, 1895, inclusive; [compiled by Adelaide R. Hasse]. 1896. 76 pp.

Classification
no.**A17. LIBRARY**—Continued**A17.3: Bulletins**—Continued

- | | | |
|----|--|--------------------------------|
| 10 | No. 10. Accessions to Department Library, Oct.–Dec., 1895. | Feb., 1896. |
| | n. t. p. 14 pp. | 4° |
| 11 | No. 11. Accessions to Department Library, Jan.–Mar., 1896. | May, 1896. |
| | n. t. p. 15 pp. | 4° |
| 12 | No. 12. Accessions to Department Library, Apr.–June, 1896. | Aug., 1896. |
| | n. t. p. 14 pp. | 4° |
| 13 | No. 13. Accessions to Department Library, July–Sept., 1896. | Oct., 1896. |
| | n. t. p. 10 pp. | 4° |
| 14 | No. 14. Accessions to Department Library, Oct.–Dec., 1896. | Feb., 1897. |
| | n. t. p. 13 pp. | 4° |
| 15 | No. 15. Accessions to Department Library, Jan.–Mar., 1897. | May, 1897. |
| | n. t. p. 15 pp. | 4° |
| 16 | No. 16. References to literature of sugar beet exclusive of works in foreign languages; compiled by Claribel R. Barnett. | June, 1897. n. t. p. 9 pp. 4° |
| | [Title and contents supplied for binding nos. 1–8, 10–16.] | |
| 17 | No. 17. Accessions to Department Library, Apr.–June, 1897. | Aug. 1897. |
| | n. t. p. 26 leaves. | |
| 18 | No. 18. Bibliography of poultry; compiled by Emma B. Hawks. | Oct. 1897. n. t. p. 32 leaves. |
| 19 | No. 19. Accessions to Department Library, July–Sept., 1897. | Nov., 1897. |
| | n. t. p. 25 leaves. | |
| 20 | No. 20. Reference list of publications relating to edible and poisonous mushrooms; compiled by Josephine A. Clark. | Jan. 1898. 16 pp. |
| 21 | No. 21. Accessions to Department Library, Oct.–Dec., 1897. | Feb., 1898. |
| | n. t. p. 23 leaves. | |
| 22 | No. 22. Accessions to Department Library, Jan.–Mar., 1898. | Apr., 1898. |
| | n. t. p. 38 pp. | |
| 23 | No. 23. Accessions to Department Library, Apr.–June, 1898. | Aug., 1898. |
| | n. t. p. 25 pp. | |
| 24 | No. 24. List of publications relating to forestry in Department Library. | 1898. 93 leaves. |
| 25 | No. 25. Accessions to Department Library, July–Sept., 1898. | Nov., 1898. |
| | n. t. p. 16 leaves. | |
| 26 | No. 26. Accessions to Department Library, Oct.–Dec., 1898. | Feb., 1899. |
| | n. t. p. 24 leaves. | |
| 27 | No. 27. Accessions to Department Library, Jan.–Mar., 1899. | Apr., 1899. |
| | n. t. p. 20 leaves. | |
| 28 | No. 28. Accessions to Department Library, Apr.–June, 1899. | July, 1899. |
| | n. t. p. 23 leaves. | |
| 29 | No. 29. Accessions to Department Library, July–Sept., 1899. | Nov., 1899. |
| | n. t. p. 21 leaves. | |
| 30 | No. 30. Accessions to Department Library, Oct.–Dec., 1899. | Feb., 1900. |
| | 23 leaves. | |
| 31 | No. 31. Accessions to Department Library, Jan.–Mar., 1900. | May, 1900. |
| | n. t. p. 25 leaves. | |
| 32 | No. 32. Accessions to Department Library, Apr.–June, 1900. | Aug., 1900. |
| | n. t. p. 23 leaves. | |
| 33 | No. 33. Accessions to Department Library, July–Sept., 1900. | Nov., 1900. |
| | n. t. p. 19 leaves. | |
| 34 | No. 34. Accessions to Department Library, Oct.–Dec., 1900. | Feb., 1901. |
| | n. t. p. 28 leaves. | |
| 35 | No. 35. Accessions to Department Library, Jan.–Mar., 1901. | Apr., 1901. |
| | n. t. p. 29 leaves. | |
| 36 | No. 36. Accessions to Department Library, Apr.–June, 1901. | 1901. n. t. p. 24 leaves. |
| 37 | No. 37. Catalogue of periodicals and other serial publications, exclusive of U. S. Government publications, in Library of Department of Agriculture. | 1901. 362 pp. |
| 38 | No. 38. Accessions to Department Library, July–Sept., 1901. | n. t. p. 35 pp. |
| 39 | No. 39. Accessions to Department Library, Oct.–Dec., 1901. | n. t. p. 24 pp. |

TablesClassifica-
tion no.**A17. LIBRARY**—Continued**A17.3: Bulletins**—Continued

- 40 No. 40. Accessions to Department Library, Jan.-Mar., 1902. 1902. 67 pp.
 41 No. 41. List of references to publications relating to irrigation and land drainage; compiled by Ellen A. Hedrick. 1902. 181 pp.
 42 No. 42. Catalogue of publications relating to botany in library of U. S. Department of Agriculture. 1902. 242 pp.
 43 No. 43. Accessions to Department Library, April-June, 1902. 1902. 37 pp.
 44 No. 44. Accessions to Department Library, July-Sept., 1902. 1902. 51 pp.

A17.4: Circulars

None issued.

A17.5: List of duplicates offered as exchanges

- 1 1. Dec., 1901. n. t. p. 3 pp.
 2 2. Jan., 1902. n. t. p. 4 pp.

A18. MICROSCOPY DIVISION

[Division organized in 1885; abolished in 1895.]

A18.1: Annual reports

MICROSCOPIC INVESTIGATIONS: REPORT OF MICROSCOPIST

1872 (Taylor). (In A1.1:872, p. 188.)

1873 (Taylor). (In A1.1:873, p. 183.)

1874 (Taylor). (In A1.1:874, p. 161.)

1875 (Taylor). (In A1.1:875, p. 187.)

1876 (Taylor). (In A1.1:876, p. 74.)

1877 to 1884, no reports printed.

REPORT OF MICROSCOPIST (MICROSCOPY DIVISION)

1885 (Taylor). (In A1.1:885, p. 89.)

1886 (Taylor). (In A1.1:886, p. 139.)

1887 (Taylor). (In A1.1:887, p. 617.)

1888 (Taylor). (In A1.1:888, p. 559.)

889 1889 (Taylor), [1]+191-200 pp. 13 pl. (Also in A1.1:889, p. 191.)

890 1890 (Taylor), [1]+361-374 pp. 11 pl. (Also in A1.1:890, p. 361.)

891 1891 (Taylor), [1]+405-416 pp. 9 pl. (Also in A1.1:891, p. 405.)

892 1892 (Taylor), [1]+281-292 pp. 9 pl. (Also in A1.1:892, p. 281.)

CHIEF OF DIVISION OF MICROSCOPY

893 1893 (Taylor), iii+297-302 pp. 7 pl. (Also in A1.1:893, p. 297.)

1894 (Taylor). (In A1.1:894, p. 195.)

A18.2: General publications

F41 Fibrine and bacteria; by T. Taylor. n. d. 5 pp.*

M58 Microtome. Letter of C. P. Lyman to Dr. Thomas Taylor on the work of his microtome. Sept. 30, 1881.*

N16 Naphthaline as an insecticide, etc., its effect on seeds, plants, and animals; by T. Taylor. 1883. 6 pp.

A18.3: Bulletins

None issued.

A18.4: Circulars

None issued.

A18.5: Food products

- 1¹ No. 1. Twelve edible mushrooms of U. S., with directions for their identification and their preparation as food; by Thomas Taylor. (Reprinted from report Commissioner of Agriculture for 1885.) 1893. 20 pp. 1 pl.

- 1² Same, [reprinted with addition of article on mushroom industry (Falconer).] 1894. 23 pp. 1 pl.

* No copy found.

Classification
no.**A18. MICROSCOPY DIVISION**—Continued**A18.5: Food products**—Continued

- 2¹ No. 2. Eight edible and twelve poisonous mushrooms of U. S., with directions for culture and culinary preparation of the edible species; by Thomas Taylor. (Reprinted from report of Secretary of Agriculture, 1890, pp. 366-373, with appendix: List of edible fungi of U. S.) 1891. 16 pp. 5 pl.
- 2² Same, 2d rev. ed. [2d ed. rev.]. 1893. 23 pp. 6 pl.
- 3 No. 3. Improved methods of distinguishing between pure and fictitious lard [and] Four edible mushrooms of U. S.; by Thomas Taylor. (Reprinted, with revision, from report of Secretary of Agriculture for 1891.) 1893. 22 pp. 6 pl.

A19. PLANT INDUSTRY BUREAU

[The Bureau of Plant Industry was organized July 1, 1901, by the consolidation of the following divisions of the Department, viz: Agrostology Division, *see* A3; Botany Division, *see* A6; Gardens and Grounds Division, *see* A14; Pomology Division, *see* A20; Seed and Plant Introduction, *see* A23; Seed Division, *see* A24; Vegetable Physiology and Pathology Division, *see* A28. Also Arlington Experimental Farm and Tea Investigations and Experiments Office.]

A19.1: Annual reports

- 901 1901 (Galloway), iii+43-94 pp. (Also in A1.1:901, p. 43.)
- 902 1902 (Galloway), iv+47-108 pp. (Also in A1.1:902, p. 108.)

A19.2: General publications

- F74 Forage crop seed. Plan of distributing forage crop seed and cultural directions for crops distributed. [1902.] n. t. p. 8 pp. 16°
- P96 Publications. List of publications of Office of Grass and Forage Plant Investigations and Division of Agrostology; by W. J. Spillman. 1902. 12 pp.
- T55 Tobacco seed. Plan of distributing tobacco seed and cultural directions for different types of tobacco distributed. [1902.] n. t. p. 15 pp. 16°

A19.3: Bulletins (large 8°)

- 1¹ No. 1. Relation of lime and magnesia to plant growth; 1, Liming of soils from physiological standpoint, by Oscar Loew; 2, Experimental study of relation of lime and magnesia to plant growth, by D. W. May. 1901. 53 pp. 3 pl.
- 1² Same, corrected. 1901. 53 pp. 3 pl.
- 2 No. 2. Spermatogenesis and fecundation of zamia; by Herbert J. Webber. 1901. 100 pp. 7 pl.
- 3 No. 3. Macaroni wheats; by Mark Alfred Carleton. 1901. 62 pp. 11 pl.
- 4 No. 4. Range improvement in Arizona; by David Griffiths. 1901. 31 pp. 6 pl.
- 5 No. 5. Seeds and plants imported, inventory no. 9, numbers 4351-5500. 1902. 79 pp.
See for inventories 1-8, A7.6:1-8.
- 6 No. 6. List of American varieties of peppers; by W. W. Tracy, jr. 1902. 19 pp.
- 7 No. 7. Algerian durum wheats, classified list, with descriptions; by Carl S. Scofield. 1902. 48 pp. 18 pl.
- 8 No. 8. Collection of economic and other fungi prepared for distribution; by Flora W. Patterson. 1902. 31 pp.
- 9 No. 9. North American species of *Spartina*; by Elmer D. Merrill. 1902. 16 pp.
- 10 No. 10. Records of seed distribution and cooperative experiments with grasses and forage plants; by F. Lamson-Scribner. 1902. 23 pp.
- 11 No. 11. Johnson grass, report of investigations made during season of 1901; by Carleton R. Ball. 1902. 24 pp. 1 pl.
- 12 No. 12. Stock ranges of northwestern California, notes on grasses and forage plants and range conditions; by Joseph Burt Davy. 1902. 81 pp. 8 pl. 3 maps.

Tables

Classification no.

A19. PLANT INDUSTRY BUREAU—Continued

A19.3: Bulletins—Continued

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|----|--|
| 13 | No. 13. Experiments in range improvement in Central Texas; by H. L. Bentley. 1902. 72 pp. 2 pl. |
| 14 | No. 14. Decay of timber and methods of preventing it; by Hermann von Schrenk. 1902. 96 pp. 18 pl. |
| 15 | No. 15. Forage conditions on northern border of Great Basin, being report upon investigations made during July and August, 1901, in region between Winnemucca, Nev., and Ontario, Oregon; by David Griffiths. 1902. 60 pp. 16 pl. 1 map. |
| 16 | No. 16. Preliminary study of germination of spores of <i>Agaricus campestris</i> and other basidiomycetous fungi; by Margaret C. Ferguson. 1902. 43 pp. 3 pl. |
| 17 | No. 17. Some diseases of the cowpea; 1, Wilt disease and its control, by W. A. Orton; 2, Cowpea resistant to root-knot, by Herbert J. Webber and W. A. Orton. 1902. 38 pp. 6 pl. |
| 18 | No. 18. Observations on mosaic disease of tobacco; by Albert F. Woods. May 15, 1902. 24 pp. 6 pl. |
| 19 | No. 19. Kentucky bluegrass seed, harvesting, curing, and cleaning; by A. J. Pieters and Edgar Brown. 1902. 19 pp. 6 pl. |
| 20 | No. 20. Manufacture of semolina and macaroni; by Robert P. Skinner. 1902. 31 pp. 5 pl. |
| 22 | No. 21. Not issued 1902. |
| 22 | No. 22. Injurious effects of premature pollination, with general notes on artificial pollination and setting of fruit without pollination; by Charles P. Hartley. 1902. 48 pp. 4 pl. |
| 23 | No. 23. Berseem, the great forage and soiling crop of Nile Valley; by David G. Fairchild. 1902. 20 pp. 14 pl. |
| 24 | No. 24. Manufacture and preservation of unfermented grape must; by George C. Husmann. 1902. 19 pp. 1 pl. |
| | No. 25. Not issued 1902; see for advance issue A19.3a:R31. |
| 26 | No. 26. Spanish almonds and their introduction into America; by David G. Fairchild. 1902. 16 pp. 8 pl. |
| | Nos. 27-29, not issued 1902. |
| 30 | No. 30. Budding the pecan; by George W. Oliver. 1902. 20 pp. 8 pl. |
| 31 | No. 31. Cultivated forage crops of Northwestern States; by A. S. Hitchcock. 1902. 28 pp. 7 pl. |

A19.3^a: Bulletins (separates)

- | | |
|-----|--|
| R31 | Rescue grass. Seeds of rescue grass and chess; by F. H. Hillman. 1902. [1]+4 pp. |
| | [Advance issue of portion of Bulletin no. 25.] |

A19.4: Circulars

None issued.

A19.5: Novelties and specialties, Distribution of (16°)

- | | |
|----------------|---|
| 1 | Section 1. n. t. p. 4 pp. |
| 2 | Section 2. n. t. p. 4 pp. |
| 3 | Section 3. n. t. p. 4 pp. |
| 4 | Section 4. n. t. p. 4 pp. |
| 5 | Section 5. n. t. p. 4 pp. |
| 5 ^a | Section 5 ^a . n. t. p. 4 pp. |
| 6 | Section 6. n. t. p. 4 pp. |
| 6 ^a | Section 6 ^a . n. t. p. 4 pp. |

A20. POMOLOGICAL DIVISION

[Merged into Bureau of Plant Industry, July 1, 1901, see A19. For historical sketch of Division, see Yearbook, 1897 (A1.10:897), p. 111.]

A20.1: Annual reports

REPORT OF POMOLOGIST

- | | |
|-----|---|
| | 1886 (Van Deman). (In A1.1:886, p. 259.) |
| 887 | 1887 (Van Deman), [1]+627-652 pp. 9 pl. (Also in A1.1:887, p. 627.) |
| | 1888 (Van Deman). (In A1.1:888, p. 565.) |

A20. POMOLOGY DIVISION—Continued**A20.1: Annual reports—Continued**

REPORT OF POMOLOGIST—Continued

- 889 1889 (Van Deman), [1] + 433-452 pp. 10 pl. (Also in A1.1:889, p. 433.)
 890 1890 (Van Deman), [1] + 409-424 pp. 9 pl. (Also in A1.1:890, p. 409.)
 891 1891 (Van Deman), [1] + 379-404 pp. 11 pl. [Plate 11 is erroneously
 numbered "9."] (Also in A1.1:891, p. 379.)
 892 1892 (Van Deman), [1] + 247-280 pp. 13 pl. (Also in A1.1:892, p. 247.)
 REPORT OF ASSISTANT POMOLOGIST
 893 1893 (Taylor), iii + 277-296 pp. 9 pl. (Also in A1.1:893, p. 277.)
 REPORT OF POMOLOGIST
 894 1894 (Heiges), 62 pp. 4 pl. (Exec. report in A1.1:894, p. 205.)
 895 1895 (Heiges), 64 pp. 6 pl. (Exec. report in A1.1:895, p. 191.)
 896 1896 (Heiges), iii + 109-114 pp. (Also in A1.1:896, p. 109.)
 897 1897 (Brackett), ii + 147-151 pp. (Also in A1.1:897, p. 147.)
 898 1898 (Brackett), iii + 127-131 pp. (Also in A1.1:898, p. 127.)
 899 1899 (Brackett), iii + 85-90 pp. (Also in A1.1:899, p. 85.)
 REPORT OF ACTING POMOLOGIST
 900 1900 (Taylor), ii + 59-63 pp. (Also in A1.1:900, p. 59.)
 901 1901 (Brackett). [This final report of the Division was made through the
 chief of Bureau of Plant Industry, forming part of his annual report
 for 1901. (See A1.1:901, p. 75; also, A19.1:901, p. 75.)]

A20.2: General publications

[Publications which originated in this Division, but which were published in a numbered series of the Secretary's Office or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Division issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

- N95 Nut culture in U. S., embracing native and introduced species; [compiled by W. P. Corsa]. 1896. 144 pp. 16 pl. large 8°

A20.3: Bulletins

- 1¹ No. 1. Report on condition of tropical and semitropical fruits in United States in 1887, prepared under direction of Commissioner of Agriculture; Tropical and semitropical fruits in Florida and Gulf States, by P. W. Reasoner; Tropical and semitropical fruits of California, Arizona, and New Mexico, by W. G. Klee. 1888. 149 pp. 3 pl.
 1² Same, [2d ed.]. 1891. 149 pp.
 2 No. 2. Adaptation of Russian and other fruits to extreme northern portions of United States; [by T. T. Lyon]. 1888. 64 pp.
 3 No. 3. Classification and generic synopsis of wild grapes of North America; by T. V. Munson. 1890. 14 pp.
 4 No. 4. Relative merit of various stocks for orange, with notes on mal di goma and mutual influence of stock and scion; [compiled by William R. King]. 1891. 21 pp.
 5 No. 5. Fig culture; edible figs, their culture and curing, by Gustav Eisen; Fig culture in Gulf States, by Frank S. Earle. 1897. 32 pp.
 6 No. 6. Catalogue of fruits recommended for cultivation in various sections of U. S., by American Pomological Society; revised by committee of society, T. T. Lyon, chairman. 1897. 39 pp.
 7 No. 7. Fruit industry and substitution of domestic for foreign-grown fruits, with historical and descriptive notes on ten varieties of apple suitable for export trade; by William A. Taylor. 1898. vii + 305-362 pp. 5 pl.
 [Reprint from Yearbook for 1897.]
 8 No. 8. Revised catalogue of fruits recommended for cultivation in various sections of U. S. and British provinces, by American Pomological Society; revised by committee of society, W. H. Ragan, chairman. 1899. 63 pp. 1 pl.
 9 No. 9. Fig, its history, culture, and curing, with descriptive catalogue of known varieties of figs; by Gustav Eisen. 1901. 317 pp. 16 pl.
 10 No. 10. Prunes and prune culture in Western Europe, with special reference to existing conditions in Pacific Northwest; by Edward R. Lake. 1901. 23 pp. 10 pl.

Tables

Classification
no.

A20. POMOLOGY DIVISION—Continued

A20.1: Circulars

[Reprinted from Report of Pomologist for 1894.]

- 1 No. 1. Nut culture; by H. M. Engle. August 18, 1896. n. t. p. 4 pp.
2¹ No. 2. Prune culture in Pacific Northwest; by E. R. Lake. n. d. n. t. p.
7 pp.
2² Same, revised Nov. 20, 1897. n. t. p. 7 pp.
3¹ No. 3. Notes on peach culture; by J. H. Hale. n. d. n. t. p. 10 pp.
3² Same, revised Nov. 20, 1897. [Erroneously numbered 40.] n. t. p.
8 pp.
3³ Same [with correct number.] n. t. p. 8 pp.

A21. PUBLICATIONS DIVISION

[Formerly Division of Records and Editing.]

A21.1: Annual reports

REPORT OF EDITOR

- 1868 (Dodge). (In A1.1:868, p. 190.)
1869 (Dodge). (In A1.1:869, p. 157.)
1870 (Dodge). (In A1.1:870, p. 153.)
1871 (Dodge). (In A1.1:871, p. 123.)
1872 to 1888 no reports printed.
1889 Report of Secretary relative to establishment and work of the
division. 3 pp. (Also in A1.1:889, p. 10.)

REPORT OF CHIEF OF DIVISION OF RECORDS AND EDITING

- 890 1890 (Hill), [1]+437-447 pp. (Also in A1.1:890, p. 437.)
891 1891 (Hill), [1]+489-498 pp. (Also in A1.1:891, p. 489.)
892 1892 (Hill), [1]+497-508 pp. (Also in A1.1:892, p. 497.)
893 1893 (Hill), iii+395-408 pp. (Also in A1.1:893, p. 395.)
894 1894 (Hill), iii+171-184 pp. (Also in A1.1:894, p. 171.)

REPORT OF CHIEF OF DIVISION OF PUBLICATIONS

- 895 1895 (Hill), iii+221-244 pp. (Also in A1.1:895, p. 221.)
896 1896 (Hill), iv+29-76 pp. (Also in A1.1:896, p. 29.)
897 1897 (Hill), iv+25-91 pp. (Also in A1.1:897, p. 25).
898 1898 (Hill), iv+43-86 pp. (Also in A1.1:898, p. 43).

REPORT OF EDITOR

- 899 1899 (Hill), iv+161-211 pp. (Also in A1.1:899, p. 161.)
900 1900 (Hill), iii+113-164 pp. (Also in A1.1:900, p. 113.)
901 1901 (Hill), iii+271-324 pp. (Also in A1.1:901, p. 271.)
902 1902 (Hill), iii+317-376 pp. (Also in A1.1:902, p. 317.)

A21.2: General publications

- Ag8 Agriculture Department. Department of Agriculture and its work; by
George William Hill. Aug. 6, 1898. n. t. p. 12 pp.
A16 Atlanta, Ga. Organization of U. S. Department of Agriculture and list of
its exhibits at Cotton States and International Exposition, Atlanta,
Ga., Sept. 8, 1895, to Jan. 1, 1896. 1895. 14 pp. 4 pl. 16°
B97 Butter making. Report on recently patented process of butter making;
by D. E. Salmon. Nov. 20, 1897. n. t. p. 3 pp.
C49¹ Circulars issued by the various divisions of the Department of Agriculture
to Nov. 1, 1897. n. p. n. d. 11 pp.
C49² Circulars of information [issued by the various divisions of Agriculture
Department]. n. d. n. t. p. 6 pp.
F22¹ Farmers' bulletins [available for distribution]. July 10, 1896. n. t. p.
4 pp.
F22² Same. Oct. 7, 1896. n. t. p. 4 pp.
F22³ Same. Feb. 1, 1897. n. t. p. 4 pp. 4°
F22⁴ Same. Apr. 1, 1897. n. t. p. 3+[1] pp. 4°
F22⁵ Same. June 1, 1897. n. t. p. 4 pp. 4°
P96¹ Publication work as affected by law of Jan. 12, 1895. Jan. 18, 1897.
n. t. p. 4 pp.
P96² Publications. Notes regarding Department publications. Sept. 19, 1896.
(Circ.)

Classification no.

A21. PUBLICATIONS DIVISION—Continued

A21.2: General publications—Continued

- P96³ Publications available. Special list of publications available Apr. 10, 1899, for distribution to correspondents and others rendering service to the Department. n. d. n. t. p. 10 pp.
- R29 Reprints. [List of] Congressional reprints for sale by Supt. of Documents. April 30, 1897. n. t. p. 2 pp.

A21.3: Bulletins

- 1¹ [No. 1.] Index to annual reports of U. S. Department of Agriculture, 1837 to 1893; [compiled by George F. Thompson]. 1896. 252 pp.
- 1² No. 1. Same, [reprint, 1899]. 252 pp.
- 2 No. 2. Synoptical index of reports of Statistician, 1863 to 1894; by Geo. F. Thompson. 1897. 258 pp.
- 3¹ No. 3. Historical sketch of U. S. Department of Agriculture, its objects and present organization; compiled by Charles H. Greathouse. 1898. 74 pp. 3 pl.
- 3² Same. Revised edition. 1898. 74 pp. 3 pl.
- 4 No. 4. Index to authors, with titles of their publications, in documents of U. S. Department of Agriculture, 1841 to 1897; by Geo. F. Thompson. 1898. 303 pp.
- 5 No. 5. Index to literature relating to animal industry in publications of Department of Agriculture, 1837 to 1898; by George Fayette Thompson. 1900. 676 pp.
- 6 No. 6. List by titles of publications of U. S. Department of Agriculture from 1840 to June, 1901, inclusive; compiled and compared with originals by R. B. Handy and Minna A. Cannon. 1902. 216 pp.
- 7 No. 7. Index to yearbooks of U. S. Department of Agriculture, 1894–1900; prepared by Charles H. Greathouse. 1902. 196 pp.

A21.4: Circulars

- 1 No. 1. Organization of Dept. of Agriculture, 1901–1902. Oct. 23, 1901. n. t. p. 20 pp.

A21.5: List of bulletins and circulars available for free distribution. [Publication] no. 247.

- 1 Corrected to Nov. 1, 1897. 15 pp.
- 2 [Revised.] Corrected to Oct. 1, 1898. 18 pp.
- 3 3d ed. Corrected to June 1, 1899. 20 pp.
- 4 4th ed. Corrected to July 1, 1899. 20 pp.
- 5 5th ed. Corrected to Apr. 1, 1900. 21 pp.
- 6 6th ed. Corrected to Oct. 15, 1900. 24 pp.
- 7 7th ed. Corrected to Jan. 1, 1902. 24 pp.

A21.6: Monthly list of publications

[NOTE.—Issued as a one-page circular of various sizes up to March, 1896, when it became a pamphlet of from 3 to 8 pages, without title page, in which form it is still issued.]

- 892 1892. Jan.–Dec.
- 893 1893. Jan.–Dec.
- 894 1894. Jan.–Dec.
- 895 1895. Jan.–Dec.
- 896 1896. Jan.–Dec. [2d ed. of Nov., Jan., and Feb.]
- 897 1897. Jan.–Dec.
- 898 1898. Jan.–Dec. [2d ed. of Aug. and Sept.]
- 899 1899. Jan.–Dec.
- 900 1900. Jan.–Dec.
- 901 1901. Jan.–Dec.
- 902 1902. Jan.–Dec.

A21.7: Press notices

[Synoptical notices of publications which are to appear. Distributed in large numbers to the press for copy.]

Tables

Classification no.

A21. PUBLICATIONS DIVISION—Continued

A21.8: [Price list of] publications for sale by Superintendent of Documents. [Publication no. 179.]

- | | | |
|----------------|--------------------------------------|--------------------------------------|
| 1 ¹ | [1st ed.] Feb. 19, 1896. | 15 pp. |
| 1 ² | Same, supp. Aug. 31, 1896. | [Erroneously called "Circular" 179.] |
| 2 | [2d ed.] Oct. 1, 1896. | n. t. p. 16 pp. |
| 3 | [3d ed.] Corrected to Oct. 1, 1897. | n. p. n. d. 28 pp. |
| 4 | [4th ed.] Corrected to July 1, 1898. | n. p. n. d. 28 pp. |
| 5 | 5th ed. Corrected to Feb. 1, 1899. | n. p. n. d. 33 pp. |
| 6 | 6th ed. Corrected to Feb. 1, 1900. | n. p. n. d. 37 pp. |
| 7 | 7th ed. Corrected to July 1, 1900. | n. p. n. d. 36 pp. |
| 8 | 8th ed. Corrected to Aug. 1, 1901. | n. p. n. d. 40 pp. |
| 9 | 9th ed. Corrected to Aug. 1, 1902. | 1902: 45 pp. |

A22. PUBLIC-ROAD INQUIRIES OFFICE

[Formerly Office of Road Inquiry. For historical sketch of the Office, see Yearbook, 1897 (A1.10:897), p. 175.]

A22.1: Annual reports

- | | |
|-----|---|
| | SPECIAL AGENT AND ENGINEER FOR ROAD INQUIRY |
| 893 | 1893 (Stone), iii+585-592 pp. (Also in A1.1:893, p. 585.) |
| | 1894 (Stone). (In A1.1:894, p. 217.) |
| | 1895 (Stone). (In A1.1:895, p. 195.) |
| 896 | 1896 (Stone), iii+145-149 pp. (Also in A1.1:896, p. 145.) |
| | DIRECTOR OF OFFICE OF ROAD INQUIRY |
| 897 | 1897 (Stone), iii+173-175 pp. (Also in A1.1:897, p. 173.) |
| 898 | 1898 (Dodge), iii+159-162 pp. (Also in A1.1:898, p. 159.) |
| | DIRECTOR OF OFFICE OF PUBLIC ROAD INQUIRIES |
| 899 | 1899 (Stone), iii+155-160 pp. (Also in A1.1:899, p. 155.) |
| 900 | 1900 (Dodge), ii+279-291 pp. (Also in A1.1:900, p. 279.) |
| | REPORT OF OFFICE OF PUBLIC ROAD INQUIRIES |
| 901 | 1901 (Dodge), iii+235-252 pp. (Also in A1.1:901, p. 235.) |
| 902 | 1902 (Dodge), iii+305-316 pp. (Also in A1.1:902, p. 305.) |

A22.2: General publications

[Publications which originated in this Office, but were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the office issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

- | | |
|------------------|---|
| Ag8 ¹ | Agricultural colleges. [Letter regarding cooperation of Road Inquiry Office with agricultural colleges and experiment stations in disseminating information upon best methods of road-making; by Roy Stone.] Dec. 1, 1896. n. t. p. 3 pp. |
| Ag8 ² | Same, [reprint. 1897.] n. t. p. 3 pp. |
| BS6 | Buffalo, N. Y. [Letter of invitation inclosing call for an International Good Roads Congress, to be held at Buffalo, N. Y., Sept. 16-21, 1901.] Aug. 5, 1901. 2 l. |
| C38 ¹ | Charlottesville, Va. [Letter of invitation to attend Jefferson Memorial and Interstate Good Roads Convention to be held at Charlottesville, Va., Apr. 2-4, 1902.] Mar. 3, 1902. (Circ.) |
| C38 ² | Same, inclosure, official invitation. [3] pp. |
| C43 | Chicago, Ill. Letter of invitation to attend National Good Roads and Irrigation congresses, to be held at Chicago, Ill., Nov. 19-24, 1900. Oct. 25, 1900. (Circ.) |
| Ed8 | Education. Correspondence with Commissioner of Education. June 2, 1896. (Circ.) |
| L11 | Laboratory for physical and chemical examination of road materials. n. d. (Circ.) |
| L56 ¹ | Letter to accompany Circular No. 17. June 1, 1896. n. d. (Circ.) |
| L56 ² | Letter to accompany correspondence and documents. June 12, 1896. n. d. (Circ.) |
| N21 | National Road Parliament. [Notice of meeting of National Road Parliament.] Sept. 15, 1898. (Circ.) |
| P96 ¹ | Publications of Office of Road Inquiry. [1896.] (Circ.) |

Classification no.

A22. PUBLIC-ROAD INQUIRIES OFFICE—Continued

A22.2: General publications—Continued

- P96² Publications of Office of Road Inquiry. [1897.] n. t. p. 6 pp.*
 P96³ Same, and addenda. [1899.] n. t. p. 6 pp.
 P96⁴ Same. [1899.] n. t. p. 7 pp.
 P96⁵ Same, corrected to Apr. 2, 1900. n. t. p. 8 pp.
 P96⁶ Same, corrected to Sept., 1901. 8 pp.
 R31 [Resumption of office and general inquiries.] Feb. 6, 1899. (Circ.)

A22.3: Bulletins

- 1 No. 1. State laws relating to management of roads, enacted in 1888-93; compiled by Roy Stone. 1894. 95 pp.
- 2 No. 2. Proceedings of Minnesota Good Roads Convention, held at St. Paul, Minn., Jan. 25, 26, 1894. 1894. 16 pp.
- 3 No. 3. Improvement of road system of Georgia; by O. H. Sheffield. 1894. 31 pp.
- 4 No. 4. Road-making materials in Arkansas; by John C. Branner. 1894. 11 pp.
- 5 No. 5. Information regarding road materials and transportation rates in certain States west of Mississippi River; furnished by officials of various railway companies. 1894. 24 pp.
- 6 No. 6. Information regarding roads, road materials, and freight rates in certain States north of Ohio River; furnished by officials of various railway companies. 1894. 30 pp.
- 7 No. 7. Information regarding roads and road-making materials in certain Eastern and Southern States; furnished by officials of various railway companies. 1894. 29 pp.
- 8 No. 8. Earth roads, hints on their construction and repair; compiled by Roy Stone. 1894. 20 pp.
- 9 No. 9. State aid to road building in New Jersey; by Edward Burroughs. 1894. 20 pp.
- 10 No. 10. Proceedings of National Road Conference, Asbury Park, July 5, 6, 1894. 1894. 63 pp.
- 11 No. 11. Proceedings of Virginia Good Roads Convention, Richmond, Va., Oct. 18, 1894. 1895. 62 pp.
- 12 No. 12. Wide tires, laws of certain States relating to their use, and other pertinent information; compiled by Roy Stone. 1895. 16 pp.
- 13 No. 13. Kentucky highways, history of old and new systems; by M. H. Crump. 1895. 24 pp.
- 14 No. 14. Good roads, extracts from messages of governors; compiled by Roy Stone. 1895. 24 pp.
- 15 No. 15. Proceedings of Good Roads Convention of Texas, Houston, Tex., Feb. 19, 1895. 1895. 24 pp.
- 16¹ No. 16. Notes on employment of convicts in connection with road building; compiled by Roy Stone. 1895. 15 pp.
- 16² Same, revised edition. 1898. 21 pp.
- 17 No. 17. Historical and technical papers on road building in United States. 1895. 52 pp.
- 18¹ No. 18. State laws relating to management of roads enacted in 1894-1895; compiled by Roy Stone. 1895. 86 pp.
[Continuation of Bull. 1.]
- 18² Same, Supplement. 1895. v+87-124 pp.
- 19 No. 19. Progress of road construction in United States; reports by delegates to National Road Parliament, Atlanta, Ga., Oct. 17-19, 1895. 1897. 47 pp.
- 20 No. 20. Traction tests; by Samuel T. Neely. 1896. 22 pp. 2 pl.
- 21 No. 21. Proceedings of International Good Roads Congress, held at Buffalo, N. Y., Sept. 16-21, 1901. 1901. 100 pp.
- 22 No. 22. Proceedings of 3d Annual Good Roads Convention of Boards of Supervisors of State of New York, held at Albany, N. Y., Jan. 28 and 29, 1902. 1902. 63 pp. 13 pl.
- 23 No. 23. Road conventions in Southern States and object-lesson roads constructed under supervision of Office of Public Road Inquiries, with cooperation of Southern Railway. 1902. 89 pp. 11 pl.

* No copy found.

Tables

Classification
no.

A22. PUBLIC-ROAD INQUIRIES OFFICE—Continued

A22.3: Bulletins—Continued

- 25 No. 24. Not issued 1902.
No. 25. Proceedings of Jefferson Memorial and Interstate Good Roads Convention, held at Charlottesville, Va., Apr. 2-4, 1902. 1902. 60 pp. 5 pl.

A22.4: Circulars

- 1 No. 1. Circular letter to the governors of States and Territories requesting cooperation with Office of Road Inquiry.*
2 No. 2. Same, to the secretaries of state.*
3 No. 3. Same, to the members of Congress.*
4 No. 4. Same, to the State geologists.*
5 No. 5. Same, to the railroad presidents.*
6 No. 6. General circular of inquiry.*
7 No. 7. Request for information, etc.*
8 No. 8. Same.*
9 No. 9. Circular relating to road conference at Asbury Park, N. J.*
10 No. 10. Circular of a temporary character. [Copy not preserved by office.]*
11 No. 11. Same.*
12 No. 12. Circular addressed to the statistical correspondents of the office.*
13 No. 13. List of Publications of the Office of Road Inquiry.*
14 No. 14. Addresses on road improvement; by Roy Stone. 1894. n. t. p. 15 pp.
15 No. 15. Act to provide for construction of roads by local assessment, county and State aid, passed by New York Assembly. Oct. 31, 1894. n. t. p. 3 pp.
16 No. 16. Highway taxation, comparative results of labor and money systems. Nov. 9, 1894. n. t. p. 5 pp.
[For revision, see no. 24.]
17 No. 17. Origin and work of Darlington Road League. Sept. 25, 1895. 6 pp.
18¹ No. 18. Report of Committee on Legislation adopted by State Good Roads Convention, Richmond, Va., Oct. 10, 11, 1895. Oct. 29, 1895. 6 pp.
18² Same, Nov. 10, 1895. 6 pp.
19 No. 19. Traffic of country roads. Apr. 4, 1896. 4 pp.
20 No. 20. Comments on systems of maintaining country roads. May 1, 1896. 7 pp.
[For revision, see revised ed. no. 24.]
21 No. 21. Methods of constructing macadamized roads. June 6, 1896. 12 pp.
22 No. 22. [Appeal for organization of State and local road-improvement societies]; by C. A. Locke. June 25, 1896. 3 pp.
23 No. 23. Money value of good roads to farmers; by W. C. Latta. July 15, 1896. 4 pp.
24¹ No. 24. Highway repairing. 1896. 12 pp.
24² No. 24. Revision of nos. 16, 20, 24, Highway maintenance and repairs. Dec. 15, 1897. 16 pp.
25 No. 25. Brick paving for country roads. Dec. 16, 1896. 7 pp.
26 No. 26. Going in debt for good roads; address of Judge Thayer. Jan. 16, 1897. 6 pp.
27 No. 27. Cost of hauling farm products to market or to shipping points in European countries; reports from consuls. Feb. 5, 1897. 12 pp.
28 No. 28. Addresses on road improvement in Maine, New York, North Carolina, and Illinois; by Roy Stone. Mar. 2, 1897. 26 pp.
29 No. 29. Forces which operate to destroy roads, with notes on road stones and problems therewith connected; by C. L. Whittle. Mar. 13, 1897. 14 pp. 4 pl.
30 No. 30. Repairs of macadam roads; by E. G. Harrison. Mar. 1, 1898. 14 pp.
31 No. 31. Must farmer pay for good roads? by Otto Dorner. [n. d.] 40 pp. 16²

[This number was duplicated by assigning it to "State aid to road building in Minnesota," but a new edition of that circular was issued bearing its proper number, which is no. 32].

* No copy found.

Classification no. A22. PUBLIC-ROAD INQUIRIES OFFICE—Continued

A22.1: Circulars—Continued

- 32¹ [No. 32.] State aid to road building in Minnesota; by A. B. Choate. July 23, 1898. 12 pp.
[Erroneously numbered 31.]
- 32² No. 32. Same, [reprint with correct number]. 12 pp.
- 33 No. 33. Road improvement in governors' messages. May 1, 1899. 14 pp.
- 34 No. 34. Social, commercial, and economic phases of road subject; by W. H. Moore. Mar. 29, 1900. 8 pp.
- 35 No. 35. [Higbie-Armstrong road improvement act]. May 16, 1900. 15 pp.
- 36¹ No. 36. List of national, state, and local road associations and kindred organizations in U. S. Jan. 20, 1902. n. t. p. 13 pp.
- 36² Same, revised. May 1, 1902. n. t. p. 14 pp.

A23. SEED AND PLANT INTRODUCTION

[Separated from Division of Botany and made independent publishing office about Jan. 1, 1901. Merged into Plant Industry Bureau July 1, 1901. See A19.]

A23.1: Annual reports

None issued.

A23.2: General publications

None issued.

A23.3: Bulletins

None issued.

A23.4: Circulars

- 1 No. 1. Best horse-radish varieties of Europe, and methods of cultivation; by David G. Fairchild. Dec. 24, 1900. n. t. p. 8 pp.
- 2 No. 2. Cultivation of Znaim cucumbers; by David G. Fairchild. Jan. 10, 1901. 8 pp.

A23.5: Inventories

See A6.6:1-8.

See for Inventory no. 9, A19.3:5.

A24. SEED DIVISION

[Merged into Bureau of Plant Industry, July 1, 1901. See A19.]

A24.1: Annual reports

- 1868 (Dean). (In A1.1:868, p. 125.)
- 1869 No report issued.
- 1870 (Dean). (In A1.1:870, p. 155.)
- 1871 (Dean). (In A1.1:871, p. 125.)
- 1872 (Dean). (In A1.1:872, p. 407.)
- 1873 (Dean). (In A1.1:873, p. 210.)
- 1874 (Dean). (In A1.1:874, p. 179.)
- 1875 (Dean). (In A1.1:875, p. 359.)
- 1876 to 1878, no report issued.
- 1879 (Dean). (In A1.1:879, p. 484.)
- 1880 to 1884, no report issued.
- 1885 (King). (In A1.1:885, p. 47.)
- 1886 (King). (In A1.1:886, p. 47.)
- 1887 (King). (In A1.1:887, p. 653.)
- 1888 (King). (In A1.1:888, p. 643.)
- 1889 (Longley). (In A1.1:889, p. 477.)
- 1890 (Peck). (In A1.1:890, p. 425.)
- 1891 (Peck). (In A1.1:891, p. 451.)
- 1892 (Peck). (In A1.1:892, p. 471.)
- 893 1893 (Fegan) (calendar year) iii+389-392 pp.
(Also in A1.1:893, p. 389.)
- 1894 (Fegan). (In A1.1:894, p. 187.)

Tables

Classifica-
tion no.

A24. SEED DIVISION—Continued

A24.1: Annual reports—Continued

- 1895 (Fegan) July, 1894–Oct. 1895. (In A1.1:895, p. 201.)
896 1896 (Ashton) Oct. 1, 1895–June 30, 1896. iii+151–154 pp.
(Also in A1.1:896, p. 151.)
1897–1900 none issued.

A24.2: General publications

None issued.

A24.3: Bulletins

None issued.

A24.4: Circulars

None issued.

A24.5: Special agent for seed distribution, annual reports of

- 894 1894 (Harnden), [1]+211–213 pp. (Also in A1.1:894, p. 211.)
1895 (Harnden). (In A1.1:895, p. 213.)
896 1896 (Harnden), [1]+155–237 pp. (Also in A1.1:896, p. 155.)
1897 (Harnden). (In A1.1:897, p. 181.)
1898 (Brigham). (In A1.1:898, p. 1.)
1899 (Brigham). (In A1.1:899, p. 3.)
1900 (Brigham). (In A1.1:900, p. 7.)

A25. SILK SECTION

[Discontinued June 30, 1891. By order of Oct. 28, 1889, this section was severed from the Division of Entomology, with which it had been connected since the beginning of the period of regular appropriations made by Congress in 1884.]

A25.1: Annual reports

- 889 1889 (Walker), [1]+453–476 pp. (Also in A1.1:889, p. 453.)
890 1890 (Walker), [1]+265–276 pp., 6 pl. (Also in A1.1:890, p. 265.)

A25.2: General publications

None issued.

A25.3: Bulletins

- 1 No. 1. How to raise silkworms, a brief manual of instructions abridged from Bulletin no. 9 of Division of Entomology; by Philip Walker.
1890. 16 pp.

A25.4: Circulars

None issued.

A26. SOILS BUREAU

[Formerly Division of Soils. For historical sketch of Bureau, see Yearbook, 1897 (A1.10:897), p. 122.]

A26.1: Annual reports

- CHIEF OF DIVISION OF AGRICULTURAL SOILS
1894 (Whitney). (In A1.1:894, p. 199.)
1895 (Whitney). (In A1.1:895, p. 179.)
896 1896 (Whitney), iii+239–242 pp. (Also in A1.1:896, p. 239.)
CHIEF OF DIVISION OF SOILS
897 1897 (Whitney), ii+153–157 pp. (Also in A1.1:897, p. 153.)
898 1898 (Whitney), iii+133–142 pp. (Also in A1.1:898, p. 133.)
899 1899 (Whitney), iii+101–111 pp. (Also in A1.1:899, p. 101.)
900 1900 (Whitney), iii+67–83 pp. (Also in A1.1:900, p. 65.)
901 1901 (Whitney), iii+113–140 pp. (Also in A1.1:901, p. 113.)

[Though the title-page of the 1901 report reads, "Division of Soils," the heading of the letter of transmittal reads correctly "Bureau of Soils."]

- CHIEF OF BUREAU OF SOILS
902 1902 (Whitney), iv+155–188 pp. (Also in A1.1:902, p. 155.)

A26. SOILS BUREAU—Continued**A26.2: General publications**

- F45 Field parties. Instructions to field parties and descriptions of soil types. Field season 1902. n. d. 73 pp.
- T55 Tobacco. Catalogue of Connecticut shade-grown tobacco, Sumatra and Havana seed wrappers, grown under direction of Department of Agriculture during season of 1901, and packed in Sumatra and Cuban packages, to be sold at public auction May 1, 1902, at Hartford, Conn., for account of growers who have cooperated with Department. 1902. 26 pp. 4°
- T99 Types. List of soil types established by Division of Soils in 1899 and 1900, with brief description. Mar. 1, 1901. n. t. p. 11 pp.

A26.3: Bulletins

- 1 No. 1. Soil moisture, a record of amount of water contained in soils, during May, 1895. 16 pp.
- 2 No. 2. Same, June, 1895. 16 pp.
- 3 No. 3. Same, July, 1895. 23 pp.
- 4 No. 4. Methods of mechanical analysis of soils and of determination of amount of moisture in soils in field. 1896. 24 pp.
- 5 No. 5. Texture of some important soil formations. 1896. 23 pp. 35 pl.
- 6 No. 6. An electrical method of determining moisture content of arable soils; by Milton Whitney, Frank D. Gardner, and Lyman J. Briggs. 1897. 26 pp.
- 7 No. 7. An electrical method of determining temperature of soils; by Milton Whitney and Lyman J. Briggs. 1897. 15 pp.
- 8 No. 8. An electrical method of determining soluble salt content of soils, with some results of investigations on effect of water and soluble salts on electrical resistance of soils; by Milton Whitney and Thos. H. Means. 1897. 30 pp.
- 9 No. 9. Soil moisture: record of amount of water contained in soils during crop season of 1896; by Milton Whitney and Ralph S. Hosmer. 1897. 23 pp.
- 10 No. 10. Mechanics of soil moisture; by Lyman J. Briggs. 1897. 24 pp.
- 11 No. 11. Tobacco soils of United States, a preliminary report upon soils of principal tobacco districts; by Milton Whitney. 1898. 47 pp. 13 pl.
- 12 No. 12. Electrical method of moisture determination in soils, results and modifications in 1897; by Frank D. Gardner. 1898. 24 pp. 3 pl.
- 13 No. 13. Preliminary report on soils of Florida; by Milton Whitney. 1898. 31 pp. 6 pl.
- 14 No. 14. Alkali soils of Yellowstone Valley, from preliminary investigation of soils near Billings, Mont.; by Milton Whitney and Thos. H. Means. 1898. 39 pp. 17 pl.
- 15 No. 15. Electrical instruments for determining moisture, temperature, and soluble salt content of soils; by Lyman J. Briggs. 1899. 35 pp.
- 16 No. 16. Catalogue of first 4,000 samples in soil collection of Division of Soils; by Milton Whitney. 1899. 145 pp.
- 17 No. 17. Soil solutions, their nature and functions, and classification of alkali lands; by Frank K. Cameron. 1901. 39 pp.
- 18 No. 18. Solution studies of salts occurring in alkali soils; [articles] by Frank K. Cameron, Lyman J. Briggs, and Atherton Seidell. 1901. 89 pp.
- 19 No. 19. Capillary studies and filtration of clay from soil solutions; [articles] by Lyman J. Briggs and Macy H. Lapham. 1902. 40 pp.
- 20 No. 20. Growing Sumatra tobacco under shade in Connecticut Valley; by Milton Whitney. 1902. 31 pp. 7 pl.

A26.4: Circulars

- 1 No. 1. Announcement [of functions of Division]; by Milton Whitney. Mar. 30, 1894. n. t. p. 3 pp.
- 2 No. 2. Instructions for taking samples of soil for moisture determinations; by Milton Whitney. Apr. 26, 1894. n. t. p. 3 pp.
- 3 No. 3. Soils of Pecos valley, New Mexico; by Thomas H. Means and Frank D. Gardner. n. d. n. t. p. 7 pp.

Tables

Classifica-
tion no.

SOILS BUREAU—Continued

A26.4: Circulars—Continued

- 4 No. 4. Soils of Salt Lake valley, Utah; by Frank D. Gardner and John Stewart. n. d. n. t. p. 11 pp.
- 5 No. 5. Bulk fermentation of Connecticut tobacco; by Marcus L. Floyd. n. d. n. t. p. 10 pp.
- 6 No. 6. Instructions for determining in field the salt content of alkali waters and soils; by Milton Whitney. Mar. 7, 1900. n. t. p. 9 pp.
- 7 No. 7. Description of soil map of Connecticut valley. June 29, 1900. n. t. p. 4 pp.
- 8 No. 8. Reclamation of salt marsh lands; by Thos. H. Means. Aug. 3, 1901. n. t. p. 10 pp.
- 9 No. 9. Soil survey around Imperial, Cal.; by Thomas H. Means and J. Gar-nett Holmes. Jan. 10, 1902. n. t. p. 20 pp.

A26.5: Field operations of Division of Soils (annual)

1899. [1st.] See A1.8:64.
 900¹ 1900. 2d. 474 pp. 51 pl.
 900² Same. 24 maps in 8° folder.
 Same, including maps. 56th Cong., 2d sess., H. doc. 526; serial no. 4181.
 901¹ 1901. 3d. 647 pp. 96 pl.
 901² Same. 31 maps in 8° folder.
 Same, including maps. 57th Cong., 1st sess., H. doc. 655; serial no. 4384.

A26.5/: Field operations of Division of Soils (separates.)

[Each of the papers contained in the report is issued separately, with maps belonging thereto.]

A27. STATISTICS DIVISION

For historical sketch of Division, see Yearbook, 1897 (A1.10:897), p. 258.

A27.1: Annual reports

REPORT OF AGRICULTURAL STATISTICS

1863 (Bollman). (In A1.1:863, p. 579.)

1864 (Bollman). (In A1.1:864, p. 564.)

REPORT OF STATISTICIAN

1865 (Dodge). (In A1.1:865, p. 54.)

1866 (Dodge). (In A1.1:866, p. 51.)

1867 (Dodge). (In A1.1:867, p. 77.)

1868 (Dodge). (In A1.1:868, p. 16.)

1869 (Dodge). (In A1.1:869, p. 20.)

1870 (Dodge). (In A1.1:870, p. 24.)

1871 (Dodge). (In A1.1:871, p. 13.)

1872 (Dodge). (In A1.1:872, p. 9.)

1873 [Dodge]. (In A1.1:873, p. 15.)

1874 (Dodge). (In A1.1:874, p. 15.)

1875 (Dodge). (In A1.1:875, p. 17.)

1876 (Dodge). (In A1.1:876, p. 87.)

1877 (Dodge). (In A1.1:877, p. 149.)

1878 (Worthington). (In A1.1:878, p. 257.)

1879 (Worthington). (In A1.1:879, p. 127.)

1880 (Worthington). (In A1.1:880, p. 185.)

1881 and 1882 (Dodge). (In A1.1:881-2, p. 577.)

1883 (Dodge). (In A1.1:883, p. 251.)

1884 (Dodge). (In A1.1:884, p. 419.)

1885 (Dodge). (In A1.1:885, p. 345.)

1886 (Dodge). (In A1.1:886, p. 359.)

1887 (Dodge). (In A1.1:887, p. 523.)

1888 (Dodge). (In A1.1:888, p. 405.)

889 1889 (Dodge), [1]+201-272 pp. (Also in A1.1:889, p. 201.)

890 1890 (Dodge), [1]+287-360+iii pp. 3 pl. (Also in A1.1:890, p. 287.)

891 1891 (Dodge), [1]+273-340+v pp. (Also in A1.1:891, p. 273.)

892 1892 (Dodge), iii+403-470+ii pp. (Also in A1.1:892, p. 403.)

A27. STATISTICS DIVISION—Continued**A27.1: Annual reports—Continued**

REPORT OF STATISTICIAN—Continued

- 893 1893 (Robinson), iii+465-566+iv pp. (Also in A1.1:893, p. 465.)
 1894 (Robinson). (In A1.1:894, p. 113.)
 895 1895 (Robinson), iii+111-129 pp. (Also in A1.1:895, p. 111.)
 896 1896 (Robinson), iii+115-122 pp. (Also in A1.1:896, p. 115.)
 897 1897 (Hyde), ii+219-224 pp. (Also in A1.1:897, p. 219.)
 898 1898 (Hyde), iii+175-178 pp. (Also in A1.1:898, p. 175.)
 899 1899 (Hyde), iii+263-266 pp. (Also in A1.1:899, p. 263.)
 900 1900 (Hyde), 293-297 pp. n. t. p. (Also in A1.1:900, p. 293.)
 901 1901 (Hyde), 341-344 pp. n. t. p. (Also in A1.1:901, p. 341.)
 1902 (Hyde). (In A1.1:902, p. 401.)

A27.2: General publications

- Ag8 Agricultural statistics. American centennial album of agricultural statistics, including maps, charts, diagrams, illustrations of industrial colleges, and specimens of breeds of farm animals; compiled by J. R. Dodge, Washington. 1876. 46 l. oblong large 8°
 C33 Cereals. Production and distribution of cereals of U. S.; by J. R. Dodge. 1879. 14 pp.
 [Extract from report of Joseph Nimmo, jr., chief of Bureau of Statistics, Treasury Department, on Internal commerce of U. S., published Dec. 1, 1879.]
 C88¹ Crop correspondents. Manual of instructions to crop correspondents; by Henry A. Robinson. 1895. 28 pp.
 C88² Same, revised and corrected. 1896. 23 pp.
 G76¹ Graphics. Album of agricultural graphics of U. S.; [by J. R. Dodge]. 1890. [6] pp. 10 pl. 12½ inches x 18½ inches.
 G76² Same; by J. R. Dodge. 1891. [6] pp. 10 pl. 12½ inches x 18½ inches.
 In2 Industrial Colleges: The nature of education to be given in them; their several kinds of instruction considered, by Lewis Bollman; to which is added a communication of general plan of college building, with necessary aids to instruction in each department of education, by Richard Owen. [1864.] 40 pp.
 P96 Publications. [Letter relating to publications.] By Henry A. Robinson. July 15, 1895. (Circ.)
 St2¹ Statistics. Album of agricultural statistics of U. S.; [by J. R. Dodge]. 1889. 8 pp. 16 pl. 4°
 St2² Same; by J. R. Dodge. 1891. 8 pp. 16 pl. 4°

A27.3: Bulletins

See A27.8:

A27.4: Circulars

- 1 No. 1. Acreage, production, and value of farm crops in U. S., 1866 to 1895, with other data as to cotton and wool. July 24, 1896. n. t. p. 8 pp.
 2 No. 2. Wheat crop of world. Aug. 7, 1896. n. t. p. 2 pp.
 [Reprinted from Statistician's report, March, 1896.]
 3 No. 3. Farmers' interest in finance. Dec. 4, 1896. n. t. p. 15 pp.
 4 No. 4. Cotton crop of 1895; by James L. Watkins. Dec. 4, 1896. n. t. p. 15 pp.
 No. 5. See A27.9:35.
 No. 6. See A27.9:35.
 No. 7. See A27.9:35.
 No. 8. See A27.9:35.
 9 No. 9. Cotton crop of 1897-98; by James L. Watkins. Nov. 14, 1898. n. t. p. 16 pp.
 10 No. 10. Brazos river, Texas, flood of June-July, 1899: its effects upon agriculture of submerged region; by E. S. Holmes, jr. Aug. 19, 1899. n. t. p. 8 pp.
 11 No. 11. World's grain crops in 1899. Oct. 5, 1899. n. t. p. 8 pp.
 12 No. 12. Changes in railroad freight classifications; by Edward G. Ward, jr. April 30, 1900. n. t. p. 43 pp.

Tables

Classification no.

A27. STATISTICS DIVISION—Continued

A27.4: Circulars—Continued

- | | |
|----|---|
| 13 | No. 13. List of free employment agencies for use of farmers; by Max West. June 28, 1900. 42 pp. |
| 14 | No. 14. Estimates of Russian crops; by E. T. Peters. Feb. 5, 1901. n. t. p. 11 pp. |

A27.5: Crop circulars

[From first issue of crop circular, May, 1898: "Crop circulars will hereafter take the place of the crop reports, new series, issued monthly (except January), and will consist of the information contained in the telegraphic reports of the 10th of each month, with such additions as will enhance its value to the farmers and as the circular form will permit. Special crop reports will not be abandoned, but their issue will depend upon the seasonableness and importance of the subject and not upon a fixed date."]

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|-----|---|
| 898 | 1898. May, 3 pp.
June, 4 pp.
July, 4 pp.
Aug., 4 pp.
Sept., 4 pp.
Oct., 8 pp.
Nov., 4 pp. |
| 899 | 1899. May, 4 pp.
June, 4 pp.
July, 8 pp.
Aug., 4 pp.
Sept., 4 pp.
Oct., 4 pp.
Nov., 4 pp. |
| 900 | 1900. Apr., 4 pp.
[Discontinued.] |

A27.6: Crop reporter 4°

[Announcement (v. 1, no. 1, May, 1899): "This publication is issued for the benefit of the crop correspondents of the Division of Statistics, and as a convenient means of communication between them and the Statistician. It will be sent every monthly correspondent regularly enrolled so long as he continues to supply the Statistician with the information asked for, and an earnest effort will be made to make it interesting, instructive, and helpful to him in his work. This is not designed for general distribution and will not be mailed to any but actual and active crop correspondents."]

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|---|---|
| 1 | V. 1. No. 1, May, 1899. n. t. p. 4 pp.
No. 2, June, 1899. n. t. p. 4 pp.
No. 3, July, 1899. n. t. p. 4 pp.
No. 4, Aug., 1899. n. t. p. 4 pp.
No. 5, Sept., 1899. n. t. p. 4 pp.
No. 6, Oct., 1899. n. t. p. 4 pp.
No. 7, Nov., 1899. n. t. p. 4 pp.
No. 8, Dec., 1899. n. t. p. 4 pp.
No. 9, Jan., 1900. n. t. p. 4 pp.
No. 10, Feb., 1900. n. t. p. 4 pp.
No. 11, Mar., 1900. n. t. p. 4 pp.
No. 12, Apr., 1900. n. t. p. 4 pp. |
| 2 | V. 2. No. 1, May, 1900. n. t. p. 8 pp.
No. 2, June, 1900. n. t. p. 8 pp.
No. 3, July, 1900. n. t. p. 8 pp.
No. 4, Aug., 1900. n. t. p. 8 pp.
Same, supplement. n. t. p. 4 pp.
No. 5, Sept., 1900. n. t. p. 8 pp.
No. 6, Oct., 1900. n. t. p. 8 pp.
No. 7, Nov., 1900. n. t. p. 8 pp.
No. 8, Dec., 1900. n. t. p. 4 pp.
No. 9, Jan., 1901. n. t. p. 8 pp.
No. 10, Feb., 1901. n. t. p. 8 pp.
No. 11, Mar., 1901. n. t. p. 8 pp.
No. 12, Apr., 1901. n. t. p. 8 pp. |
| 3 | V. 3. No. 1, May, 1901. n. t. p. 8 pp.
No. 2, June, 1901. n. t. p. 8 pp. |

Classification no.

A27. STATISTICS DIVISION—Continued**A27.6: Crop reporter—Continued**

3	V. 3, No. 3, July, 1901.	n. t. p.	8 pp.
	No. 4, Aug., 1901.	n. t. p.	8 pp.
	No. 5, Sept., 1901.	n. t. p.	8 pp.
	No. 6, Oct., 1901.	n. t. p.	8 pp.
	No. 7, Nov., 1901.	n. t. p.	8 pp.
	No. 8, Dec., 1901.	n. t. p.	8 pp.
	No. 9, Jan., 1902.	n. t. p.	8 pp.
	No. 10, Feb., 1902.	n. t. p.	8 pp.
	No. 11, Mar., 1902.	n. t. p.	8 pp.
	No. 12, Apr., 1902.	n. t. p.	8 pp.
4	V. 4, No. 1, May, 1902.	n. t. p.	8 pp.
	No. 2, June, 1902.	n. t. p.	8 pp.
	No. 3, July, 1902.	n. t. p.	8 pp.
	No. 4, Aug., 1902.	n. t. p.	8 pp.
	No. 5, Sept., 1902.	n. t. p.	8 pp.
	No. 6, Oct., 1902.	n. t. p.	8 pp.
	No. 7, Nov., 1902.	n. t. p.	8 pp.
	No. 8, Dec., 1902.	n. t. p.	8 pp.

A27.7: Monthly crop synopsis

[Synopsis of the monthly statistical reports (A27.9:) issued as a four-page leaflet, soon after the 10th of each month from Mar., 1890, to May, 1896, inclusive, and bearing a number identical with that of the report which it summarizes.]

890	1890.	Mar.	(Synopsis of Statistical Report no. 71.)
		Apr.	(Synopsis of Statistical Report no. 72.)
		May.	(Synopsis of Statistical Report no. 73.)
		June.	(Synopsis of Statistical Report no. 74.)
		July.	(Synopsis of Statistical Report no. 75.)
		Aug.	(Synopsis of Statistical Report no. 76.)
		Sept.	(Synopsis of Statistical Report no. 77.)
		Oct.	(Synopsis of Statistical Report no. 78.)
		Nov.	(Synopsis of Statistical Report no. 79.)
		Dec.	(Synopsis of Statistical Report no. 80.)
891	1891.	Feb.	(Synopsis of Statistical Report no. 81.)
		Mar.	(Synopsis of Statistical Report no. 82.)
		Apr.	(Synopsis of Statistical Report no. 83.)
		May.	(Synopsis of Statistical Report no. 84.)
		June.	(Synopsis of Statistical Report no. 85.)
		July.	(Synopsis of Statistical Report no. 86.)
		Aug.	(Synopsis of Statistical Report no. 87.)
		Sept.	(Synopsis of Statistical Report no. 88.)
		Oct.	(Synopsis of Statistical Report no. 89.)
		Nov.	(Synopsis of Statistical Report no. 90.)
		Dec.	(Synopsis of Statistical Report no. 91.)
892	1892.	Feb.	(Synopsis of Statistical Report no. 92.)
		Mar.	(Synopsis of Statistical Report no. 93.)
		Apr.	(Synopsis of Statistical Report no. 94.)
		May.	(Synopsis of Statistical Report no. 95.)
		June.	(Synopsis of Statistical Report no. 96.)
		July.	(Synopsis of Statistical Report no. 97.)
		Aug.	(Synopsis of August Crop Report.)
		Sept.	(Synopsis of September Crop Report.)
		Oct.	(Synopsis of October Crop Report.)
		Nov.	(Synopsis of November Crop Report.)
		Dec.	(Synopsis of December Crop Report.)
893	1893.	Jan.	(Synopsis of December Crop Report.)
		Feb.	(Synopsis of Statistical Report no. 101.)
		Mar.	(Synopsis of Statistical Report no. 102.)
		Apr.	(Synopsis of Statistical Report no. 103.)
		May.	(Synopsis of Statistical Report no. 104.)
		June.	(Synopsis of Statistical Report no. 105.)
		July.	(Synopsis of Statistical Report no. 106.)
		Aug.	(Synopsis of Statistical Report no. 107.)

Tables

Classification no.

A27. STATISTICS DIVISION—(Continued)

A27.7: Monthly crop synopsis—(Continued)

893	1893.	Sept.	(Synopsis of Statistical Report no. 108.)
		Oct.	(Synopsis of Statistical Report no. 109.)
		Nov.	(Synopsis of Statistical Report no. 110.)
		Dec.	(Synopsis of Statistical Report no. 111.)
894	1894.	Feb.	(Synopsis of Statistical Report no. 112.)
		Mar.	(Synopsis of Statistical Report no. 113.)
		Apr.	(Synopsis of Statistical Report no. 114.)
		May.	(Synopsis of Statistical Report no. 115.)
		June.	(Synopsis of Statistical Report no. 116.)
		July.	(Synopsis of Statistical Report no. 117.)
		Aug.	(Synopsis of Statistical Report no. 118.)
		Sept.	(Synopsis of Statistical Report no. 119.)
		Oct.	(Synopsis of Statistical Report no. 120.)
		Nov.	(Synopsis of Statistical Report no. 121.)
895	1895.	Jan.	(Synopsis of Statistical Report no. 122.)
		Feb.	(Synopsis of Statistical Report no. 123.)
		Mar.	(Synopsis of Statistical Report no. 124.)
		Apr.	(Synopsis of Statistical Report no. 125.)
		May.	(Synopsis of Statistical Report no. 126.)
		June.	(Synopsis of Statistical Report no. 127.)
		July.	(Synopsis of Statistical Report no. 128.)
		Aug.	(Synopsis of Statistical Report no. 129.)
		Sept.	(Synopsis of Statistical Report no. 130.)
		Oct.	(Synopsis of Statistical Report no. 131.)
		Nov.	(Synopsis of Statistical Report no. 132.)
		Dec.	(Synopsis of Statistical Report no. 133.)
896	1896.	Mar.	(Synopsis of Statistical Report no. 135.)
		Apr.	(Synopsis of Statistical Report no. 136.)
		May.	(Synopsis of Statistical Report no. 137.)

[Discontinued.]

A27.8: Miscellaneous series, bulletin

[The word "Bulletin" was added to the series title beginning with no. 9.]

- 1 No. 1. Report on flax, hemp, ramie, and jute, with considerations upon flax and hemp culture in Europe, report on ramie machine trials of 1889 in Paris, and present status of fiber industries in U. S.; by Charles Richards Dodge. [1st ed.] 1890. 104 pp.
See, for 2d ed., A11.5:1.
- 2 No. 2. Report on agriculture of South America, with maps and latest statistics of trade; by Almont Barnes. 1892. 189 pp.
- 3 No. 3. Coöperative credit associations in certain European countries, and their relation to agricultural interests; by Edward T. Peters. 1892. 117 pp.
- 4 No. 4. Wages of farm labor in United States, results of nine statistical investigations from 1866 to 1892, with extensive inquiries concerning wages from 1840 to 1865. 1892. 69 pp.
- 5 No. 5. Production and distribution of principal agricultural products of world. 1893. 205 pp.
- 6 No. 6. Rice: its cultivation, production, and distribution in U. S. and foreign countries, by Amory Austin; with chapter on Rice soils of South Carolina, by Milton Whitney. 1893. 89 pp.
- 7 No. 7. An agricultural survey of Wyoming; by John W. Hoyt. 1893. 72 pp.
- 8 No. 8. Recent features of our foreign trade; by Edward T. Peters. 1894. 24 pp.
- 9 No. 9. Production and price of cotton for 100 years; by James L. Watkins. 1895. 20 pp.
See, for abstract, A27.8a:C82.
- 10 No. 10. Railway charges for transportation of wool. 1896. 30 pp.
- 11 No. 11. Number and value of farm animals of U. S., and animal products, 1880-1896. 1896. 63 pp.
- 12 No. 12. Freight charges for ocean transportation of products of agriculture, Oct. 1, 1895-Oct. 1, 1896. 1896. 53 pp.

Classifica-
tion no.

A27. STATISTICS DIVISION—Continued

A27.8: Miscellaneous series, bulletin—Continued

- 13 No. 13. Fertilizer industry; review of statistics of production and consumption, with abstract of State laws for analysis and sale; by John Hyde. 1898. 27 pp.
- 14 No. 14. Of what service are statistics to the farmer? by John Hyde. 1898. iii+258-270 pp.
[Reprint from Yearbook, 1897, p. 258. See A1.10:1897.]
- 15¹ No. 15. Changes in rates of charge for railway and other transportation services; by H. T. Newcomb. 1898. 80 pp.
- 15² Same, revised, 1901. 86 pp.
- 16 No. 16. Cost of cotton production; by James L. Watkins. 1899. 99 pp.
- 17 No. 17. Cotton crop of 1898-99; by James L. Watkins. 1900. 32 pp.
- 18 No. 18. Course of prices of farm implements and machinery for series of years; by George K. Holmes. 1901. 31 pp.
- 19 No. 19. Cotton crop of 1899-1900; by James L. Watkins. 1901. 46 pp.
- 20 No. 20. Wheat growing and general agricultural conditions in Pacific coast region of U. S.; by Edwin S. Holmes, jr. 1901. 44 pp. 8 pl. 1 map.
- 21 No. 21. Rates of charge for transporting garden truck, with notes on growth of industry; by Edward G. Ward, jr., and Edwin S. Holmes, jr. 1901. 86 pp.
- 22 No. 22. Wages of farm labor in U. S.; result of eleven statistical investigations, 1866-1899. 1901. 47 pp.
- 23 No. 23. Statistics on fruit industry of California; by Edwin S. Holmes, jr. 1901. 11 pp.

A27.8": Miscellaneous series, bulletin (separates)

- C82 Cotton and currency. [1895.] n. t. p. 3 pp.
[Abstract of Misc. series, Bull. No. 9. See A27.8:9.]

A27.9: Statistical reports

[Contains reports on condition of crops, and special subjects of interest to farmers. Issued as "Monthly" or "Bi-monthly Report" of Department from May, 1863, to December, 1876, when the series was discontinued and the issue of the statistical matter was transferred to the series of "Special reports" (A1.6:) and there appeared under various numbers, not always consecutive, from Jan., 1877, to Sept., 1883. Another change was made in October, 1883, when "New Series, Report no. 1," appeared containing the crop statistics. This last series was continued, consecutively numbered, up to no. 155, December, 1897. No. 156 was issued April 20, 1899. From May, 1898, to April, 1900, the statistics were issued in a "Crop circular" (A27.5). Beginning with May, 1900, they were merged into the "Crop Reporter" (A27.6:) which is now being issued. A "Synoptical index" of this series was issued by the Department in 1897 (A21.3:2), but as it did not give a table of the various reports of the Statistician, indexed under the comprehensive title "Reports of the Statistician," it can not be definitely determined whether the present collation includes all or more than the index. All reports of the Statistician relative to crops and farm animals have, however, been included. The volume numbers are assigned to the yearly groups of reports to facilitate listing and reference.]

- 1 [V. 1.] 1863.
[No. 1.] Monthly report on condition of crops, May and June, 1863, n. t. p. 16 pp.
[No. 2.] Same, July, 1863, n. t. p. 19 pp.
[No. 3.] Same, Aug., 1863, n. t. p. 20 pp.
[No. 4.] Same, Sept., 1863, n. t. p. 41 pp.
[No. 5.] Same, Oct., 1863, n. t. p. 20 pp.
[No. 6.] Same, Nov., 1863, n. t. p. 38 pp.
Same, Dec. (None issued.)
- 2 [V. 2.] 1864.
[No. 1.] Bi-monthly report of Agricultural Department, Jan. and Feb., 1864. 72 pp.
[No. 2.] Same, Mar. and Apr., 1864. 96 pp.
[No. 3.] Same, Apr. and May, 1864. 38 pp.
[No. 4.] Same, June and July, 1864. 23 pp.
Same, Aug. (None issued.)
[No. 5.] Same, Sept. and Oct., 1864. 56 pp.
[No. 6.] Same, Nov. and Dec., 1864. 59 pp.

Tables

Classification no.

A27. STATISTICS DIVISION—(Continued)

A27.9: Statistical reports—(Continued)

- 3 [V. 3.] 1865.
[No. 1.] Monthly report of Agricultural Department, Jan., 1865. 50 pp.
[No. 2.] Same, Feb., 1865. 48 pp.
[No. 3.] Same, Mar., 1865. 41 pp.
[No. 4.] Same, Apr.-May, 1865. 86 pp.
[No. 5.] Same, June-July, 1865. 60 pp.
[No. 6.] Same, Aug., 1865. 54 pp.
[No. 7.] Same, Sept., 1865. 51 pp.
[No. 8.] Same, Oct., 1865. 46 pp.
[No. 9.] Same, Nov., 1865. 53 pp.
[No. 10.] Same, Dec., 1865. 43 pp.
- 4 [V. 4.] 1866.
Monthly report of Department of Agriculture for year 1866; J. R. Dodge, editor. 1867. vii+457 pp.
Contents:
Jan., 50 pp.; Feb., pp. 51-122; Mar., pp. 123-169; Apr., pp. 171-228; May (none issued); June, pp. 229-276; July, pp. 277-324; Aug. (none issued); Sept., pp. 325-371; Oct., pp. 373-408; Nov. and Dec., pp. 409-457.
- 5 [V. 5.] 1867.
Monthly reports of Department of Agriculture for year 1867; J. R. Dodge, editor. 1868. xi+397 pp.
Contents:
Jan., 48 pp.; Feb., 49-80; Mar., pp. 81-127; Apr., pp. 129-186; May-June, pp. 187-233; July, pp. 235-270; Aug.-Sept., pp. 271-311; Oct., pp. 313-352; Nov.-Dec., pp. 353-397.
- 6 [V. 6.] 1868.
Monthly reports of Department of Agriculture for year 1868; edited by J. R. Dodge. 1868. xi+483 pp.
Contents:
Jan., 55 pp.; Feb., pp. 57-107; Mar., 109-169; Apr., pp. 171-234; May-June, pp. 235-307; July, pp. 309-339; Aug.-Sept., pp. 341-383; Oct., pp. 385-420; Nov.-Dec., pp. 421-483.
- 7 [V. 7.] 1869.
Monthly reports of Department of Agriculture for year 1869; edited by J. R. Dodge. 1869. xii+419 pp.
Contents:
Jan., 40 pp.; Feb., pp. 41-82; Mar.-Apr., pp. 83-185; May-June, pp. 187-262; July, pp. 263-314; Aug.-Sept., pp. 263-326; Oct., pp. 327-386; Nov.-Dec., pp. 327-419.
NOTE.—Starred pages in index refer to those pages duplicated in Aug.-Sept., and Nov.-Dec. numbers.
- 8 [V. 8.] 1870.
Monthly reports of Department of Agriculture for year 1870; edited by J. R. Dodge. 1871. xiii+498 pp.
Contents:
Jan., 64 pp.; Feb., pp. 65-110; Mar.-Apr., pp. 111-187; May-June, pp. 189-260; July, pp. 261-308; Aug.-Sept., pp. 309-385; Oct., pp. 387-454; Nov.-Dec., pp. 455-498.
- 9 [V. 9.] 1871.
Monthly reports of Department of Agriculture for year 1871. 1872. xiv+517 pp.
Contents:
Jan., 52 pp.; Feb., pp. 53-92; Mar.-Apr., pp. 93-168; May-June, pp. 169-230; July, pp. 231-291; Aug.-Sept., pp. 293-376; Oct., pp. 377-430; Nov.-Dec., pp. 431-517.
- 10 [V. 10.] 1872.
Monthly reports of Department of Agriculture for year 1872. 1873. xiv+528 pp.
Contents:
Jan., 48 pp.; Feb., pp. 49-102; Mar.-Apr., pp. 103-169; May-June, pp. 171-246; July, pp. 247-326; Aug.-Sept., pp. 327-409; Oct., pp. 411-465; Nov.-Dec., pp. 467-528.
- 11 [V. 11.] 1873.
Monthly reports of Department of Agriculture for year 1873. 1873. xii+618 pp.
Contents:
Jan., 48 pp.; Feb. (none issued); Mar., pp. 49-131; Apr., pp. 131-208; May-June, pp. 209-297; July, pp. 299-383; Aug.-Sept., pp. 385-463; Oct., pp. [1]+465-518; Nov.-Dec., pp. ii+519-618.

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- 12 [V. 12.] 1874.
Monthly reports of Department of Agriculture for year 1874. 1875.
xi+545 pp.
Contents:
Jan., 70 pp.; Feb.-Mar., pp. 71-173; Apr.-May, pp. 175-242; June, pp. 243-285; July,
pp. 287-338; Aug.-Sept., pp. 339-400; Oct., pp. 401-459; Nov.-Dec., pp. 461-545.
- 13 [V. 13.] 1875.
Monthly reports of Department of Agriculture for year 1875. 1876.
xiii+532 pp.
Contents:
Jan., 63 pp.; Feb.-Mar., pp. 65-146; Apr., pp. [1]+147-186; May-June, pp. 187-257,
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- 14 [V. 14.] 1876.
Monthly reports of Department of Agriculture for year 1876. 1877.
xi+511 pp.
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July, pp. 215-291; Aug.-Sept., pp. 293-379, 1 pl.; Oct., pp. 381-439, 2 pl.; Nov.-Dec.,
pp. 441-511.
[Numbers in that part of the Statistical Series designated as "Special Reports" which
are missing here will be found in the series of Special Reports under the Secre-
tary's Office (A1.6.) All of the Special Reports which are properly in the Statis-
tical Series are, however, found here, those in A1.6 being special reports on mis-
cellaneous subjects.]
- 15 [V. 15.] 1877.
Special report no. 2. Report upon condition of crops; also, state-
ment of international wheat supply, and our wheat exports, with
foreign crops and prices. 1877. 35 pp.
- 16 [V. 16.] 1878.
Special reports no. 5. Report upon condition of crops, June 1, 1878.
1878. 10 pp.
Special reports no. 6. Same, July 1, 1878. 1878. 17 pp.
Special reports no. 7. Same, Aug. 1, 1878. 1878. 26 pp.
Special reports no. 8. Same, Sept. 1, 1878. 1878. 22 pp.
Special report no. 9. Same, Dec. 1, 1878. 1878. 28 pp.
- 17 [V. 17.] 1879.
Special report no. 10. Report upon condition of crops and live stock,
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Special report no. 13, April, 1879. 1879. 26 pp.
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Special report no. 15. Report upon condition of crops, July 1, 1879.
1879. 24 pp.
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Special report no. 17. Same, Sept. 1, 1879. 1879. 25 pp.
Special report no. 19. Same, Nov. 1, 1879. 1879. 21 pp.
Special report no. 20. Same, Dec. 1, 1879. 1879. 15 pp.
- 18 [V. 18.] 1880.
Special report no. 21. Report upon number and prices of farm ani-
mals, Jan. 1, 1880. 1880. 27 pp.
Special report no. 23. Report upon condition of crops and live stock,
April, 1880. 1880. 22 pp.
Special report no. 24. Report upon condition of crops, June and July,
1880. 1880. 31 pp.
Special report no. 25. Same, Aug. 1, 1880. 1880. 29 pp.
Special report no. 27. Same, Sept. 1, 1880. 1880. 34 pp.
Special report no. 29. Same, Nov. 1, 1880. 1880. 19 pp.
Special report no. 30. Same, Dec. 1, 1880. 1880. 19 pp.
- 19 [V. 19.] 1881.
Special report no. 32. Report upon condition of crops and live stock,
April, 1881. 1881. 22 pp.
Special report no. 37. Report upon condition of crops, June and July,
1881. 1881. 24 pp.
Special report no. 38. Same, Aug. 1, 1881. 1881. 21 pp.
Special report no. 39. Same, Sept. 1, 1881. 1881. 30 pp.

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- 20 [V. 20] 1882.
- Special report no. 41. Report upon estimated production of cereals of U. S., for year 1881. [February, 1882.] 1882. 8 pp.
 - Special report no. 42. Condition of winter grain and numbers and condition of farm animals of U. S., April, 1882. 1882. 82 pp.
 - Special report no. 43. Condition of winter grain; progress of cotton and corn planting; rate of wages and labor; and results of tile draining, May, 1882. 1882. 20 pp.
 - Special report no. 44. Acreage and condition of cotton; condition of all cereals; and area of spring grain, June, 1882. 1882. 15 pp.
 - Special report no. 45. Area and condition of corn; condition of cotton, and of small grains, sorghum, tobacco, etc., July, 1882. 1882. 33 pp.
 - Special report no. 46. Condition of corn and cotton, of spring wheat, fruits, etc.; also freight rates of transportation companies, August, 1882. 1882. 54 pp.
 - Special report no. 49. Condition of corn and cotton, of potatoes, fruits, etc.; also freight rates of transportation companies, September, 1882. 1882. 48 pp.
 - Special report no. 51. Yield and quality of small grain; condition of corn and cotton, of potatoes, tobacco, etc., also freight rates of transportation companies, October, 1882. 1882. 58 pp.
 - Special report no. 52. Yield per acre of cotton, corn, potatoes, and other field crops, with comparative product of fruits; also local freight rates of transportation companies, November, 1882. 1882. 109 pp.
 - Special report no. 53. Product and price of principal crops of 1882; also freight rates of transportation companies, including changes of winter tariff, December, 1882. 1882. 79 pp.
- 21 [V. 21] 1883.
- Special report no. 56. Numbers and values of farm animals; product and quality of cotton; and comparative values of American and European farm implements; also rates of transportation in Europe and U. S., February, 1883. 1883. 74 pp.
 - Special report no. 57. Distribution and consumption of corn and wheat, and rates of transportation of farm products, March, 1883. 1883. 39 pp.
 - Special report no. 58. Area and condition of winter wheat, and condition of farm animals; also spring rates of transportation of farm products, April, 1883. 1883. 46 pp.
 - Special report no. 59. Condition of winter grain; progress of cotton planting, and estimates of cereals of 1882, with freight rates of transportation companies, May, 1883. 1883. 65 pp.
 - Special report no. 60. Acreage of spring grain and cotton; condition of winter wheat, and European grain prospects, with freight rates of transportation companies, June, 1883. 1883. 56 pp.
 - Special report no. 61. Area of corn, potatoes, and tobacco, and condition of growing crops in U. S. and Europe, with report on rates of transportation, July, 1883. 1883. 48 pp.
 - Special report no. 64. Report on condition of crops, "American competition," and freight rates of transportation companies, August, 1883. 1883. 80 pp.
 - Special report no. 65. Report on condition of crops and on freight rates of transportation companies, September, 1883. 1883. 55 pp.
 - New series, report no. 1. Condition of crops, yield of grain per acre, and freight rates of transportation companies, October, 1883. 1883. 28 pp.
 - New series, report no. 2. Yield of crops per acre; progress of sorghum growing; crops of Europe; and freight rates of transportation companies, November, 1883. 1883. 59 pp.
 - New series, report no. 3. Crops of year; cereal production in Europe; and freight rates of transportation companies, December, 1883. 1883. 74 pp.

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[V. 22.] 1884.

- New series, report no. 4. Number and value of farm animals; certain causes affecting wages of farm labor; and freight rates of transportation companies, February, 1884. 1884. 56 pp.
- New series, report no. 5. Distribution and consumption of corn and wheat, and rates of transportation of farm products, March, 1884. 1884. 44 pp.
- New series, report no. 6. Area of winter grain; condition of farm animals; and freight rates of transportation companies, April, 1884. 1884. 48 pp.
- New series, report no. 7. Condition of winter grain; progress of cotton planting; and estimates of cereals of 1883, with freight rates of transportation companies, May, 1884. 1884. 36 pp.
- New series, report no. 8. Acreage of spring grain and cotton; condition of winter wheat; European grain prospects, with freight rates of transportation companies, June, 1884. 1884. 39 pp.
- New series, report no. 9. Area of corn, potatoes, and tobacco; condition of growing crops, and rates of transportation, July, 1884. 1884. 59 pp.
- New series, report no. 10. Condition of growing crops and rates of transportation, August, 1884. 1884. 36 pp.
- New series, report no. 11. Condition of crops; wheat in India; and freight rates of transportation companies, September, 1884. 1884. 87 pp.
- New series, report no. 12. Condition of crops; yield of grain per acre; and freight rates of transportation companies, October, 1884. 1884. 44 pp.
- New series, report no. 13. Yield of crops per acre; agriculture in Mexico; and freight rates of transportation companies, November, 1884. 1884. 94 pp.
- New series, report no. 14. Crops of year, and freight rates of transportation companies, December, 1884. 1885. 60 pp.

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[V. 23.] Reports of Bureau of Statistics of Department of Agriculture, (nos. 15–25, new series) [Jan.–Dec., 1885]; by J. R. Dodge, Statistician, Washington, D. C. 1885.

Contents:

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- New series, report no. 15. Numbers and values of farm animals; cotton crop and its distribution; and freight rates of transportation companies. Jan. and Feb., 1885. 1885. 64 pp.
- New series, report no. 16. Distribution and consumption of corn and wheat; consumption of cereals in Europe; and freight rates of transportation companies. Mar., 1885. 1885. 47 pp.
- New series, report no. 17. Area of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1885. 1885. 80 pp.
- New series, report no. 18. Condition of winter grain; progress of cotton planting; wages of farm labor; also, freight rates of transportation companies. May, 1885. 1885. 60 pp.
- New series, report no. 19. Acreage of spring grain and cotton; condition of winter wheat; European grain prospects; with freight rates of transportation companies. June, 1885. 1885. 56 pp.
- New series, report no. 20. Area of corn, potatoes, and tobacco; condition of growing crops; and rates of transportation. July, 1885. 1885. 64 pp.
- New series, report no. 21. Condition of growing crops; international dairy statistics; and rates of transportation. Aug., 1885. 1885. 70 pp.
- New series, report no. 22. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1885. 1885. 58 pp.
- New series, report no. 23. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1885. 1885. 55 pp.
- New series, report no. 24. Yield of crops per acre; and freight rates of transportation companies. Nov., 1885. 1885. 54 pp.
- New series, report no. 25. Crops of the year; and freight rates of transportation companies. Dec., 1885. 1885. 55 pp.

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[V. 24.] Reports of Bureau of Statistics of Department of Agriculture, (nos. 26–36) [Jan.–Dec., 1886]; by J. R. Dodge. 1886. 580 pp.

Contents:

- New series, report no. 26. Numbers and values of farm animals; cotton crop and its distribution; and freight rates of transportation companies. Jan. and Feb., 1886. 1886. pp. 1–56.
- New series, report no. 27. Distribution and consumption of corn and wheat; production of European wheat; and freight rates of transportation companies. Mar., 1886. 1886. pp. 57–108.

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- 24 [V. 24.] Reports of Bureau of Statistics of Department of Agriculture, etc.—Continued
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New series, report no. 28. Area of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1886. 1886. pp. 109-170.
New series, report no. 29. Condition of winter grain; progress of cotton planting; and freight rates of transportation companies. May, 1886. 1886. pp. 171-218.
New series, report no. 30. Acreage of spring wheat and cotton; condition of winter grain; world's supply of wheat; with freight rates of transportation companies. June, 1886. 1886. pp. 219-263.
New series, report no. 31. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1886. 1886. pp. 265-308.
New series, report no. 32. Condition of growing crops; and freight rates of transportation companies. Aug., 1886. 1886. pp. 309-360.
New series, report no. 33. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1886. 1886. pp. 361-419.
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New series, report no. 36. Crops of the year; and freight rates of transportation companies. Dec., 1886. 1886. pp. 533-580.
- 25 [V. 25.] Reports of Bureau of Statistics of Department of Agriculture, (nos. 37-47) [Jan.-Dec., 1887]; by J. R. Dodge. 1888. 7+662 pp.
Contents:
Index. 7 pp.
New series, report no. 37. Numbers and values of farm animals; cotton crop and its distribution; and freight rates of transportation companies. Jan. and Feb., 1887. 1887. pp. 1-56.
New series, report no. 38. Distribution and consumption of corn and wheat; wheat product of the world; and freight rates of transportation companies. Mar., 1887. 1887. pp. 57-100.
New series, report no. 39. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1887. 1887. pp. 101-164.
New series, report no. 40. Condition of winter grain; progress of cotton planting; and freight rates of transportation companies. May, 1887. 1887. pp. 165-218.
New series, report no. 41. Acreage of wheat and cotton; condition of cereal crops; with freight rates of transportation companies. June, 1887. 1887. pp. 219-278.
New series, report no. 42. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1887. 1887. pp. 279-326.
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New series, report no. 44. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1887. 1887. pp. 407-470.
New series, report no. 45. Condition of crops; yield of grain per acre; labor and prices in Mexico; and freight rates of transportation companies. Oct., 1887. 1887. pp. 471-558.
New series, report no. 46. Yield of crops per acre; and freight rates of transportation companies. Nov., 1887. 1887. pp. 559-614.
New series, report no. 47. Crops of the year; and freight rates of transportation companies. Dec., 1887. 1887. pp. 615-662.
- 26 [V. 26.] Reports of Bureau of Statistics of Department of Agriculture, (nos. 48-58) [Jan.-Dec., 1888]; by J. R. Dodge. 1889. 7+592 pp.
Contents:
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New series, report no. 48. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1888. 1888. pp. 1-64.
New series, report no. 49. Distribution and consumption of corn and wheat; and freight rates of transportation companies. Mar., 1888. 1888. pp. 65-96.
New series, report no. 50. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1888. 1888. pp. 97-152.
New series, report no. 51. Condition of winter grain; progress of cotton planting; wages of farm labor; also freight rates of transportation companies. May, 1888. 1888. pp. 153-200.
New series, report no. 52. Acreage of wheat and cotton; condition of cereal crops; with freight rates of transportation companies. June, 1888. 1888. pp. 201-259.
New series, report no. 53. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1888. 1888. pp. 261-323.
New series, report no. 54. Condition of growing crops; and freight rates of transportation companies. Aug., 1888. 1888. pp. 325-380.
New series, report no. 55. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1888. 1888. pp. 381-444.
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New series, report no. 58. Crops of the year; and freight rates of transportation companies. Dec., 1888. 1888. pp. 553-592.

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- 27 [V. 27.] Reports of Bureau of Statistics of Department of Agriculture (nos. 59-69) [Jan.-Dec., 1889]. 1890. 7+548 pp.

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New series, report no. 59. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1889. 1889. pp. 1-48.

New series, report no. 60. Distribution and consumption of corn and wheat; and freight rates of transportation companies. Mar., 1889. 1889. pp. 49-88.

New series, report no. 61. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1889. 1889. pp. 89-136.

New series, report no. 62. Condition of winter grain; progress of cotton planting; also, freight rates of transportation companies. May, 1889. 1889. pp. 137-188.

New series, report no. 63. Acreage of wheat and cotton; condition of cereal crops; and freight rates of transportation companies. June, 1889. 1889. pp. 189-236.

New series, report no. 64. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1889. 1889. pp. 237-276.

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New series, report no. 66. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1889. 1889. pp. 333-392.

New series, report no. 67. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1889. 1889. pp. 393-435.

New series, report no. 68. Yield of crops per acre; and freight rates of transportation companies. Nov., 1889. 1889. pp. 437-484.

New series, report no. 69. Crops of the year; and freight rates of transportation companies. Dec., 1889. 1889. pp. 485-548.

- 28 [V. 28.] Reports of Bureau of Statistics of Department of Agriculture (nos. 70-80) [Jan.-Dec., 1890]. 1891. viii+652 pp.

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New series, report no. 70. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1890. 1890. pp. 1-64.

New series, report no. 71. Distribution and consumption of corn and wheat; and freight rates of transportation companies. Mar., 1890. 1890. pp. 65-116.

New series, report no. 72. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1890. 1890. pp. 117-174.

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New series, report no. 74. Acreage of wheat and cotton; condition of cereal crops; and freight rates of transportation companies. June, 1890. 1890. pp. 231-310.

New series, report no. 75. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1890. 1890. pp. 311-374.

New series, report no. 76. Condition of growing crops; and freight rates of transportation companies. Aug., 1890. 1890. pp. 375-430.

New series, report no. 77. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1890. 1890. pp. 431-494.

New series, report no. 78. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1890. 1890. pp. 495-542.

New series, report no. 79. Yield of crops per acre; and freight rates of transportation companies. Nov., 1890. 1890. pp. 543-590.

New series, report no. 80. Crops of the year; and freight rates of transportation companies. Dec., 1890. 1891. pp. 591-652.

- 29 [V. 29.] Reports of Bureau of Statistics of Department of Agriculture (nos. 81-91) [Jan.-Dec., 1891]. 9+698 pp.

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New series, report no. 81. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1891. 1891. pp. 1-56.

New series, report no. 82. Distribution and consumption of corn and wheat; and freight rates of transportation companies. Mar., 1891. 1891. pp. 57-104.

New series, report no. 83. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1891. 1891. pp. 105-158.

New series, report no. 84. Condition of winter grain; progress of cotton planting; also, freight rates of transportation companies. May, 1891. 1891. pp. 159-238.

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New series, report no. 89. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1891. 1891. pp. 519-590.

New series, report no. 90. Yield of crops per acre; and freight rates of transportation companies. Nov., 1891. 1891. pp. 591-634.

New series, report no. 91. Crops of the year; and freight rates of transportation companies. Dec., 1891. 1892. pp. 635-698.

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[V. 30.] Reports of Bureau of Statistics of Department of Agriculture (nos. 92-100) [Jan.-Dec., 1892]. 1892. vii + 416 pp.

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New series, report no. 92. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1892. 1892. pp. 1-44.

New series, report no. 93. Distribution and consumption of corn and wheat; and freight rates of transportation companies. Mar., 1892. 1892. pp. 45-92.

New series, report no. 94. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1892. 1892. pp. 93-147.

New series, report no. 95. Condition of winter grain; progress of cotton planting; also freight rates of transportation companies. May, 1892. 1892. pp. 149-196.

New series, report no. 96. Acreage of wheat and cotton; condition of cereal crops; and freight rates of transportation companies. June, 1892. 1892. pp. 197-244.

New series, report no. 97. Area of corn, potatoes, and tobacco; and condition of growing crops. July, 1892. 1892. pp. 245-272.

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New series, report no. 98. Report of the Statistician, Aug., 1892. Primary prices of farm products; foreign trade in agricultural products; European crop prospects for Aug.; consular notes on foreign agriculture; freight rates of transportation companies. 1892. pp. 297-327.

[New series, report no. 98A.] Condition of growing crops, Aug., 1892. 1892. 16 pp.

[New series, report no. 98B.] Same, Sept., 1892. 1892. 20 pp.

[New series, report no. 98C.] Condition of growing crops and yield of grain per acre. Oct., 1892. 1892. 23 pp.

New series, report no. 99. Report of Statistician, Sept. and Oct., 1892. Farm prices in two centuries; ramie machine trials in New Orleans; Indian wheat crop of 1892; notes of domestic and foreign trade and industry; European crop report for Sept.; freight rates of transportation companies. 1892. pp. 329-376.

[New series, report no. 99A.] Yield of crops per acre; and product compared with last year. Nov., 1892. 1892. 16 pp.

New series, report no. 100. Report of Statistician, Nov. and Dec., 1892. Agricultural production and distribution of world; tests of averages of condition; address of Statistician at annual meeting of P[atr]ons of H[us]bandry; reciprocity and agricultural exports; European crop report for Dec., 1892; and freight rates of transportation companies. 1892. pp. 377-416.

[New series, report no. 100A.] Crops of the year, Dec., 1892. 1893. 28 pp.

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[V. 31.] Reports of Bureau of Statistics of Department of Agriculture (nos. 101-111) [Jan.-Dec., 1893]. 1894. x + 521 pp.

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New series, report no. 101. Report of Statistician, Jan. and Feb., 1893. Agriculture in France; Hungarian milling; canning industry; tobacco experiments in Texas; European crop report for Feb.; farm animals of the world; freight rates of transportation companies. 1893. pp. 1-71.

[New series, report no. 101A.] Number and value of farm animals; and cotton distribution. Jan.-Feb., 1893. 1893. 20 pp.

New series, report no. 102. Report of Statistician, Mar. 1893. Agriculture in Alaska; foreign official crop estimates; European crop report; wheat crop of the world; freight rates of transportation companies. 1893. pp. 73-95.

[New series, report no. 102A.] Distribution and consumption of corn and wheat, Mar., 1893. 1893. 16 pp.

New series, report no. 103. Report of Statistician, Apr., 1893. 1893. [Contents: Condition of winter grain; notes concerning wheat; condition of farm animals; European crop report for March, 1893; transportation rates.] pp. 97-140.

New series, report no. 104. Report of Statistician, May, 1893. 1893. [Contents: Condition of winter grain; mowing lands and pastures; progress of cotton planting; spring plowing; changes in crop areas; temperature and rainfall; notes from reports of State agents; the cotton crop of India for 1892-93; European crop report for May, 1893; transportation rates.] pp. 141-178.

New series, report no. 105. Report of Statistician, June, 1893. 1893. [Contents: Crop report for June; agriculture in the Caucasus; the customs tariff in Martinique; agricultural produce statistics of the United Kingdom; transportation rates.] pp. 179-221.

New series, report no. 106. Report of Statistician, July, 1893. 1893. [Contents: Crop report for July; statistics of Ontario; foreign import duties on wheat; notes on foreign agriculture; use of maize of United States in Mexico; transportation rates.] pp. 223-270.

New series, report no. 107. Report of Statistician, Aug., 1893. 1893. [Contents: Crop report for Aug.; notes on foreign agriculture; wheat crop of India for 1893; production of corn in New South Wales; domestic and transatlantic freight rates.] pp. 271-322.

New series, report no. 108. Report of Statistician, Sept., 1893. 1893. [Contents: Agricultural returns of Great Britain; Ontario crop report; crops in Germany; notes from United States consular officers in Scotland, France, Germany, Belgium, Cochín-China, and Ontario; domestic and transatlantic freight rates.] pp. 323-369.

New series, report no. 109. Report of Statistician, Oct., 1893. 1893. [Contents: Notes from reports of State agents; imports of hay into United States; cereal crops of France and Italy for 1893; production, commerce, and consumption of wine in Italy; corn as feed for horses in Germany; reports from consular officers relating to crops in Germany, Scotland, New Brunswick, and Ontario; domestic and transatlantic freight rates.] pp. 371-414.

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- 31 [V. 31.] Reports of Bureau of Statistics of Department of Agriculture, etc.—Continued
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New series, report no. 111. Report on the crops of the year. Dec., 1893. 1894. pp. 459-521.

- 32 [V. 32.] Reports of Bureau of Statistics of Department of Agriculture (nos. 112-122) [Jan.-Dec.] 1894. 1895. xiii+778 pp.

Contents:

Index. xiii pp.

New series, report no. 112. Report of Statistician, Jan.-Feb., 1894. Report on farm animals; notes from reports of State agents; the cotton crop; agriculture in China; the sugar crop of the world; Germany as an importer of American agricultural products; the canning industry; notes on foreign agriculture; domestic and transatlantic freight rates. 1894. pp. 1-68.

New series, report no. 113. Report of Statistician, Mar., 1894. Distribution and consumption of corn and wheat; supply and distribution of wheat for twenty-five years; wheat crop of the world; wholesale prices of principal agricultural products in all sections of U. S.; expense of raising wheat and corn; production of honey and beeswax; poultry and eggs; dairy products; official statistics of foreign crops; the world's wool supply; notes from U. S. consular officers and European agents; domestic and transatlantic freight rates. 1894. pp. 69-156.

New series, report no. 114. Report of Statistician, Apr., 1894. Condition of winter grain; wheat production in census years since 1869; farm animals, condition and losses; increase and decrease in number and value of farm animals, 1880-1890; agricultural developments in Bosnia and Herzegovina; health of the people; cotton crop of India for 1893-94; reports of U. S. consular officers; transportation rates, 1894. pp. 157-218.

New series, report no. 115. Report of Statistician, May, 1894. Temperature and rainfall; condition of winter grain; changes in crop area; world's supply and consumption of cotton; fruit-crop prospects in the U. S., May 1, 1894; agricultural production of Mexico for 1889 and 1892; agricultural statistics of Uruguay; Austrian cereal crops for 1893; Japanese cereal crops for 1893; European crop report; notes from U. S. consular officers; transportation rates. pp. 219-294.

New series, report no. 116. Report of Statistician, June, 1894. Crop report for June; tariff rates on principal cereals and flour in European countries; notes on foreign agriculture; notes from U. S. consular officers; climate of Mexico; Mexican railways; transportation rates. 1894. pp. 295-394.

New series, report no. 117. Report of Statistician, July, 1894. Crop report for July; notes on foreign agriculture; reports of U. S. consular officers; transportation rates. 1894. pp. 395-444.

New series, report no. 118. Report of Statistician, August, 1894. Crop report for August; notes on foreign agriculture; production and consumption of rice in U. S.; commerce between U. S. and Mexico for years 1873, 1878, 1883, 1888, and 1893; transportation rates. 1894. pp. 445-536.

New series, report no. 119. Report of Statistician, Sept., 1894. Crop report for Sept.; stock hogs; notes from reports of State agents; table showing condition of crops Sept. 1, 1894; urban population in South; notes on foreign agriculture; transportation rates. 1894. pp. 537-604.

New series, report no. 120. Report of Statistician, Oct., 1894. Crop report for Oct.; notes from reports of State agents; table showing yield per acre and condition by States, Oct. 1, 1894; rice production in U. S.; notes on foreign agriculture; transportation rates. 1894. pp. 605-660.

New series, report no. 121. Report of Statistician, Nov., 1894. Nov. crop report notes from reports of State agents; table showing estimated yield per acre of certain crops Nov. 1, 1894; notes on foreign agriculture; transportation rates. 1894. pp. 661-702.

New series, report no. 122. Report of Statistician, Dec., 1894. Crops of the year; crop review; principal crops of 1894; farm prices and market quotations; agricultural exports and imports; official statistics of foreign crops; transportation rates. 1894. pp. 703-778.

- 33 [V. 33.] Reports of Bureau of Statistics of Department of Agriculture (nos. 123-133) [Jan.-Dec., 1895]. 1896. v. p.

Contents:

New series, report no. 123. Report of Statistician, Jan.-Feb., 1895. Farm animals; cotton crop; live stock in Great Britain and Ireland; cotton crop of India for 1894; a French congress on popular credit; wheat crop of Victoria (Australia); notes on foreign agriculture; Jan. transportation rates; Feb. transportation rates. 1895. pp. 1-58.

New series, report no. 124. Report of Statistician, Mar., 1895. Distribution and consumption of wheat in U. S.; consumption of wheat per capita in U. S.; wheat crop of world; prices of wheat since 1865; wholesale prices of principal agriculture products, etc.; report of European agent; transportation rates. 1895. pp. 59-106.

Tables

Classification no.

A27. STATISTICS DIVISION—Continued

A27.9: Statistical reports—Continued

- 33 [V. 33.] Reports of Bureau of Statistics of Department of Agriculture, etc.—Continued
Contents—Continued
New series, report no. 125. Report of Statistician, Apr., 1895. Condition of winter wheat; farm animals; number of families occupying farms owned, free, and unincumbered; amount of incumbrance on farms; health of people; production, imports, and exports of potatoes; production and prices of food in Italy; potatoes and hay in Great Britain in 1894; cotton crop of India for 1894-95; rice crop of India for 1894; report of European agent; transportation charges. 1895. pp. ii+107-168.
New series, report no. 126. Report of Statistician, May, 1895. Condition of winter grain; condition of cotton crop, 1894; prices of wheat in England; report of European agent; notes on foreign agriculture; transportation charges. 1895. pp. ii+169-230.
New series, report no. 127. Report of Statistician, June, 1895. Crop report for June; cotton, increase and decrease of acreage 1895; temperature and rainfall; report of European agent; notes on foreign agriculture; transportation charges. 1895. pp. ii+231-284.
New series, report no. 128. Crop report for July, 1895; report of European agent; transportation rates. n. t. p. 23 pp.
New series, report no. 129. Crop report for August, 1895; report of European agent; transportation rates. n. t. p. 24 pp.
New series, report no. 130. Crop report for September, 1895; report of European agent; transportation rates. n. t. p. 24 pp.
New series, report no. 131. Crop report for October, 1895; report of European agent; transportation rates. n. t. p. 20 pp.
New series, report no. 132. Crop report for November, 1895; transportation rates. n. t. p. 14 pp.
New series, report no. 133. Crop report for December, 1895; Report of European agent; transportation charges. n. t. p. 36 pp. Index, 9 pp.
- 34 [V. 34.] Reports of Division of Statistics of Department of Agriculture (nos. 134-144) [Jan.-Dec.] 1896. 1897. v. p.
Contents:
Index, 6 pp.
New series, report no. 134. Prices and numbers of farm animals; report of European agent. n. t. p. 8 pp.
New series, report no. 135. Crop report for March, 1896. n. t. p. 16 pp.
New series, report no. 135. Same, summary of cotton report for March, 1896. n. t. p. 4 pp.
New series, report no. 136. Crop report for April, 1896. n. t. p. 7 pp.
New series, report no. 137. Crop report for May, 1896. n. t. p. 8 pp.
New series, report no. 138. Crop report for June, 1896. n. t. p. 4 pp.
New series, report no. 139. Crop report for July, 1896. n. t. p. 8 pp.
New series, report no. 140. Crop report for August, 1896. n. t. p. 8 pp.
New series, report no. 141. Crop report for September, 1896. n. t. p. 7 pp.
New series, report no. 142. Crop report for October, 1896. n. t. p. 7 pp.
New series, report no. 143. Crop report for November, 1896. n. t. p. 4 pp.
New series, report no. 144. Crop report for December, 1896. n. t. p. 16 pp.
- 35 [V. 35.] Publications of Division of Statistics of Department of Agriculture, Reports nos. 145 to 155; Circulars nos. 5-8. 1898. v. p.
Contents:
Index. vii pp.
New series, report no. 145. Crop report for Jan.-Feb., 1897. n. t. p. 7 pp.
New series, report no. 146. Crop report for March, 1897. n. t. p. 4 pp.
New series, report no. 147. Crop report for April, 1897. n. t. p. 8 pp.
New series, report no. 148. Crop report for May, 1897. n. t. p. 4 pp.
New series, report no. 149. Crop report for June, 1897. n. t. p. 4 pp.
New series, report no. 150. Crop report for July, 1897. n. t. p. 8 pp.
New series, report no. 151. Crop report for August, 1897. n. t. p. 7 pp.
New series, report no. 152. Crop report for September, 1897. n. t. p. 4 pp.
New series, report no. 153. Crop report for October, 1897. n. t. p. 4 pp.
New series, report no. 154. Crop report for November, 1897. n. t. p. 4 pp.
New series, report no. 155. Crop report for December, 1897. n. t. p. 30 pp.
Circular No. 5. Local taxation as affecting farms. 1897. 16 pp.
Circular No. 6. Cereal crops of 1896. n. t. p. 12 pp.
Circular No. 7. Cotton crop of 1896. n. t. p. 4 pp.
Circular No. 8. Cotton crops of 1896-97. n. t. p. 14 pp.
- 36 [V. 36] No. 156. Report on condition of winter grain on April 1, 1899, and losses of farm animals during year ending Mar. 31, 1899, with statistics of foreign crops. n. t. p. 38 pp.
[Discontinued.]
- A27.9a: Statistical reports (separates)**
- F94 Fruit-crop prospects in U. S. May 1, 1894. n. t. p. pp. 251-253.
[Reprinted from New series, report no. 115 of Statistician.]

A28. VEGETABLE PHYSIOLOGY AND PATHOLOGY DIVISION

[Formerly Division of Vegetable Pathology. Merged into Bureau of Plant Industry July 1, 1901. See A19. For historical sketch of Division see Yearbook 1897 (A1.10:897), p. 99.]

Classifica-
tion no.

A28.1: Annual reports

- REPORT OF THE MYCOLOGIST
- 886 1886 (Scribner) [1]+95-138 pp. 8 pl. 3 maps. 1 diagram. (Also in A1.1:886, p. 95.)
- REPORT OF CHIEF OF SECTION OF VEGETABLE PATHOLOGY
- 887 1887 (Scribner), 323-397 pp. 17 pl. (Also in A1.1:887, p. 323.)
- 888 1888 (Galloway), iv+325-404+iii pp. 19 pl. 1 map. (Also in A1.1:888, p. 325.)
- 889 1889 (Galloway), [1]+397-432 pp. 2 pl. (Also in A1.1:889, p. 397.)
- REPORT OF CHIEF OF DIVISION OF VEGETABLE PATHOLOGY
- 890 1890 (Galloway), [1]+393-408 pp. 5 pl. (Also in A1.1:890, p. 393.)
- 891 1891 (Galloway), [1]+359-378 pp. 3 pl. (Also in A1.1:891, p. 359.)
- 892 1892 (Galloway), [1]+215-246 pp. 4 pl. (Also in A1.1:892, p. 215.)
- 893 1893 (Galloway), iii+245-276 pp. (Also in A1.1:893, p. 245.)
- 1894 (Galloway). (In A1.1:894, p. 143.)
- REPORT OF CHIEF OF DIVISION OF VEGETABLE PHYSIOLOGY AND PATHOLOGY
- 1895 (Galloway). (In A1.1:895, p. 169.)
- 896 1896 (Galloway), iii+15-22 pp. (Also in A1.1:896, p. 15.)
- 897 1897 (Galloway), iii+7-13 pp. (Also in A1.1:897, p. 7.)
- 898 1898 (Woods), iii+27-36 pp. (Also in A1.1:898, p. 27.)
- 899 1899 (Galloway), iii+71-83 pp. (Also in A1.1:899, p. 71.)
- 900 1900 (Galloway), ii+49-58 pp. (Also in A1.1:900, p. 49.)
- 1901 (Woods). [This final report of the division was made through the chief of the Bureau of Plant Industry, forming part of his annual report for 1901. (See A1.1:901, p. 46; also A19.1:901, p. 46.)]

A28.2: General publications

None issued.

A28.3: Bulletins

- 1 No. 1. Additional evidence on communicability of peach yellows and peach rosette; by Erwin F. Smith. 1891. 65 pp. 39 pl.
- 2 No. 2. California vine disease, preliminary report of investigations; by Newton B. Pierce. 1892. 222 pp. 25 pl. 2 charts.
- 3 No. 3. Experiments made in 1891 in treatment of plant diseases; by B. T. Galloway. 1892. 76+[1] pp. 8 pl.
- 4 No. 4. Experiments with fertilizers for prevention and cure of peach yellows, 1889-92; by Erwin F. Smith. 1893. 197 pp. 33 pl.
- 5¹ No. 5. Pollination of pear flowers; by Merton B. Waite. 1894. 110 pp. 12 pl.
- 5² Same, [2d edition.] 1895. 110 pp. 12 pl.
- 6 No. 6. Bordeaux mixture as a fungicide; by D. G. Fairchild. 1894. 55 pp.
- 7 No. 7. Effect of spraying with fungicides on growth of nursery stock; by B. T. Galloway. 1894. 41 pp.
- 8 No. 8. Principal diseases of citrus fruits in Florida; by Walter T. Swingle and Herbert J. Webber. 1896. 42 pp. 8 pl.
- 9 No. 9. Bordeaux mixture, its chemistry, physical properties, and toxic effects on fungi and algae; by Walter T. Swingle. 1896. 37 pp.
- 10 No. 10. Copper sulphate and germination, treatment of seed with copper sulphates to prevent attacks of fungi; by Walter H. Evans. 1896. 24 pp.
- 11 No. 11. Legal enactments for restriction of plant diseases, compilation of laws of U. S. and Canada; by Erwin F. Smith. 1896. 45 pp.
- 12 No. 12. Bacterial disease of tomato, eggplant, and Irish potato; by Erwin F. Smith. 1896. 28 pp. 2 pl.
- 13 No. 13. Sooty mold of orange and its treatment; by Herbert J. Webber. 1897. 44 pp. 5 pl.
- 14 No. 14. Bermuda lily disease, preliminary report of investigations; by Albert F. Woods. 1897. 15 pp.

Tables

Classification no.

A28. VEGETABLE PHYSIOLOGY AND PATHOLOGY DIVISION—Continued

A28.3: Bulletins—Continued

- 15 No. 15. Some edible and poisonous fungi; by W. G. Farlow. 1898. iii + 453-470 pp. 10 pl.
[Reprinted from Yearbook, 1897.]
- 16 No. 16. Cereal rusts of United States, a physiological investigation; by Mark Alfred Carleton. 1899. 74 pp. 4 pl.
- 17 No. 17. Wilt disease of cotton, watermelon, and cowpea; by Erwin F. Smith. 1899. 72 pp. 10 pl.
- 18 No. 18. Physiological rôle of mineral nutrients; by Oscar Loew. 1899. 60 pp.
- 19 No. 19. Stigmonose; a disease of carnations and other pinks; by Albert F. Woods. 1900. 30 pp. 3 pl.
- 20 No. 20. Peach leaf curl, its nature and treatment; by Newton B. Pierce. 1900. 204 pp. 30 leaves. 30 pl.
- 21 No. 21. Two diseases of red cedar, caused by Polyporus juniperinus n. sp. and Polyporus carneus nees; preliminary report; by Hermann von Schrenk. 1900. 22 pp. 7 pl.
- 22 No. 22. Xenia, or immediate effect of pollen, in maize; by Herbert J. Webber. 1900. 44 pp. 4 pl.
- 23 No. 23. Spot disease of violet (*Alternaria violæ* n. sp.); by P. H. Dorsett. 1900. 16 pp. 7 pl.
- 24 No. 24. Basis for improvement of American wheats; by Mark Alfred Carleton. 1900. 87 pp. 11 pl.
- 25 No. 25. Some diseases of New England conifers, preliminary report; by Hermann von Schrenk. 1900. 56 pp. 15 pl.
- 26 No. 26. Wakker's hyacinth germ *Pseudomonas hyacinthi* (Wakker); by Erwin F. Smith. 1901. 45 pp. 1 pl.
Same, 56th Cong., 1st sess., H. doc. 694; serial no. 4000.
- 27 No. 27. Wilt disease of cotton and its control; by W. A. Orton. 1900. 16 pp. 4 pl.
- 28 No. 28. Cultural characters of *Pseudomonas hyacinthi*, *Ps. campestris*, *Ps. phaseola*, and *Ps. stewarti*, four one-flagellate yellow 'bacteria' parasitic on plants; by Erwin F. Smith. 1901. 153 pp.
- 29 No. 29. Plant breeding; by Willet M. Hays. 1901. 72 pp. 6 pl.

A28.4: Circulars

- 1 [No. 1.] Treatment of downy grape mildew and black-rot [of grape]. [May, 1886.] n. t. p. 3 pp.
- 2 [No. 2. Grapevine mildew and black-rot.] May 11, 1886. n. t. p. 3 pp.
- 3 No. 3. Treatment of downy mildew and black-rot of grape; by Norman J. Colman. April, 1887. 2 pp. 4°.
- 4 No. 4. Treatment of potato and tomato for blight and rot; by F. Lamson-Scribner. July 2, 1887. [3] pp. 4°.
- 5 No. 5. Fungicides, or remedies for plant diseases; by F. Lamson-Scribner. Apr. 25, 1888. n. t. p. 10 pp.
- 6 No. 6. Treatment of black-rot of grape; by B. T. Galloway. n. d. n. t. p. 3 pp.
- 7 No. 7. Grape-vine diseases; by B. T. Galloway. n. d. n. t. p. [4] pp.
- 8 No. 8. Experiments in treatment of pear leaf-blight and apple powdery mildew; [by B. T. Galloway]. n. p. [1889] 11 pp.
- 9 No. 9. Root-rot of cotton, circular of inquiry; by J. M. Rusk. n. d. n. t. p. [4] pp.
- 10 No. 10. Treatment of nursery stock for leaf-blight and powdery mildew; by B. T. Galloway. 1891. 8 pp.
- 11 No. 11. [Questions regarding black-rot, downy mildew, and anthracnose of grape; by Edwin Willits.] n. d. (Circ.)
- 12 No. 12. [Questions asked and specimens of straw and stubble of wheat, oats, rye, and barley solicited; by J. M. Rusk.] n. d. (Circ.)
- 13 No. 13. [Letter of inquiry relative to leaf curl of peach trees; by Edwin Willits.] Nov. 25, 1893. [3] pp. 4°
- 14 No. 14. [Letter of inquiry relative to grain rusts, requesting specimens of rusted wheat, oats, rye, and barley; by Chas. W. Dabney.] Feb. 23, 1894. (Circ.)

A28. VEGETABLE PHYSIOLOGY AND PATHOLOGY DIVISION—Continued

Classifica-
tion no.

A28.4: Circulars—Continued

- 15 No. 15. Treatment for sooty mold of orange; by H. J. Webber. Jan. 2, 1895. n. t. p. 4 pp.
- 16 No. 16. Danger of introducing a Central American coffee disease into Hawaii; by Walter T. Swingle. July 26, 1898. 4 pp.
- 17 No. 17. New spraying devices; by B. T. Galloway. April 5, 1899. n. t. p. 4 pp.
- 18 No. 18. New wheat industry for semi-arid west; by Mark Alfred Carleton. June 28, 1901. n. t. p. 8 pp.

A28.5: Journal of mycology

[Devoted to study of fungi, especially in their relation to plant diseases.]

V. 1-4. (Not Government publications.)

QUARTERLY BULLETIN.

- 5 V. 5. Nos. 1-4. Mar., June, Sept., [Dec.], 1889. v+5-249 pp. 14 p.

PERIODICAL BULLETIN.

- 6 V. 6. Nos. 1-4. May, Sept., 1890; Jan., Apr., 1891. iv+207 pp. 18 pl.
- 7 V. 7. Nos. 1-4. Sept., 1891; May, 1892; May, 1893; Aug., 1894. v+iii+478 pp. 38 pl.

[Discontinued.]

A28.5a: Journal of mycology (separates)

[A few of the more important papers contained in the volumes were issued separately.]

A29. WEATHER BUREAU

[For historical sketch of Bureau, see Yearbook, 1897 (A1.10:897), p. 59.]

A29.1: Annual reports

[From 1891 to 1895 the report was in two parts, the administrative, which was printed as part of the Annual Report of the Secretary of Agriculture, and also issued separately in pamphlet form, and the "Meteorological data," a continuation of the series issued by the Signal Office, War Dept., bound in quarto cloth volumes. Beginning with 1896, the two were combined in one volume, an abbreviation of the administrative portion also appearing in the Secretary's report and in a separate pamphlet, 8°]

- 891¹ | 1891 [Pt. 1]. Special report of Chief of Weather Bureau to Secretary of Agriculture, [July to Oct.] 1891. 1891. 26 pp.
- 891² | 1891 [Pt. 2]. [Administrative] report of Chief of Weather Bureau for 1891; by Mark W. Harrington. 1892. iii+539-631+iii pp. 4 pl. (Also in A1.1: 891, p. 539.)
- 891³ | 1891 [Pt. 3]. Report of Chief of Weather Bureau, 1891-92. [Meteorological tables, 1891 and 1892.] 1893. 528 pp. 4 pl. 4° (Calendar years.)
- 892 | 1892. Same, 52d Cong. 2d sess., H. mis. doc. 107, serial no. 3126.
- 892 | 1892. [Administrative] report of Chief of Weather Bureau for 1892; by Mark W. Harrington. 1893. iv+551-626+ii pp. (Calendar year.) (Also in A1.1: 892, p. 551.)

[For meteorological tables, 1892 (calendar year), see A29.1:891³.]

- 893¹ | 1893 [Pt. 1]. [Administrative] report of Chief of Weather Bureau for 1893; by Mark W. Harrington. 1894. iii+89-122 pp. 4 pl. (Also in A1.1: 893, p. 89.)
- 893² | 1893 [Pt. 2]. Report of Chief of Weather Bureau, 1893. [Meteorological tables, 1893 (calendar year).] 1894. 319 pp. 4°
- 894 | 1894. Report of Chief of Weather Bureau, 1894. [Meteorological tables, 1894 (calendar year).] 1895. 288 pp. 4°
- 894 | Same, 53d Cong., 3d sess., H. mis. doc. 88; serial no. 3339.

[For administrative report (fiscal year) see A1.1:894, p. 77.]

- 895 | 1895. Report of Chief of Weather Bureau for 1895, by Willis L. Moore. 1895. iii+65-96 pp. (Also in A1.1:895, p. 65.)

[For meteorological tables, 1895 (calendar year), see A29.1:896.]

Tables

Classification no.

A29. WEATHER BUREAU—Continued

A29.1: Annual reports—Continued

- 896 1896. Report of Chief of Weather Bureau, 1895-96 (fiscal year). [With meteorological tables, 1895 (calendar year).] 1895. x1+266 pp. 8 charts. 4°
Same, 54th Cong., 1st sess., H. doc. 428; serial no. 3453.
[The administrative portion of the report, rearranged, is also in A1.1:896, p. 243.]
- 897 1897. Report of Chief of Weather Bureau, 1896-97 (fiscal year). [With meteorological tables, 1896 (calendar year).] 1897. x+431 pp. 22+11 charts. 61 pl. 2 il.
Same, 55th Cong., 2d sess., H. doc. 166; serial no. 3670.
[Administrative portion of report, also in A1.1:897, p. 199.]
- 898 1898. Report of Chief of Weather Bureau, 1897-98 (fiscal year). [With meteorological tables, 1897 (calendar year).] 1899. 338 pp. 7 pl. 21 charts. 9 diagrams.
Same, 55th Cong., 3d sess., H. doc. 270; serial no. 3820.
[Administrative portion of report, also in A1.1:898, p. 208.]
- 899¹ 1899. Report of Chief of Weather Bureau, 1898-99, vol. 1 (fiscal year). [With meteorological tables, 1898 (calendar year).] 1900. v+247 pp. 4°
- 899² Same, vol. 2. [Report on international cloud observations, May 1, 1896, to July 1, 1897; prepared by Frank H. Bigelow.] 1900. 787 pp. 79 charts. 4°
Same, 56th Cong., 1st sess., H. doc. 660, pts. 1 and 2; serial nos. 3998 and 3999.
[Administrative portion of report, also in A1.1:899, p. 9.]
- 900 1900. Report of Chief of Weather Bureau, 1899-1900 (fiscal year). [With meteorological tables, 1899 (calendar year).] 1901. 436 pp. 4°
Same, 56th Cong., 2d sess., H. doc. 517; serial no. 4177.
[Administrative portion of report, also in A1.1:900, p. 7.]
- 901¹ 1901. Report of Chief of Weather Bureau, 1900-1901 (fiscal year), vol. 1. [With meteorological tables, 1900 (calendar year).] 1901. 318 pp. 4°
Same, 57th Cong., 1st sess., H. doc. 19, pts. 1 and 2; serial nos. 4319 and 4320.
[Administrative portion of report, also in A1.1:901, p. 3.]
- 901² Same, v. 2. [Report on barometry of U. S., Canada, and West Indies; by Frank H. Bigelow.] 1902. [1]+1005 pp. 222 charts.
- 902 1902. Report of Chief of Weather Bureau, 1901-1902 (fiscal year). [With meteorological tables, 1901 (calendar year).] 1902. xxvii+342 pp. 5 charts.
Same, 57th Cong., 2d sess., H. doc. 19; serial no. 4485.
[Administrative portion of report, also in A1.1:902, p. 3.]

A29.1 a: Annual reports (separates)

[The various series of tables, designated as "parts" in the volumes, are also issued separately.]

A29.2: General publications

- A11 Alaska. The climate of Alaska; by Willis L. Moore. 1897. 2 l. 4°
- A14 Arid regions. Some climatic features of arid regions; communicated to National Irrigation Congress at its 5th annual session, Phoenix, Ariz., Dec. 15-17, 1896; by Willis L. Moore. 1896. 19 pp. 3 charts.
- A16¹ Atmospheric circulation in tropical cyclones, as shown by movements of clouds; by H. B. Boyer. [1896.] 17 pp. 17 pl.
- A16² Atmospheric survey. U. S. daily atmospheric survey; by W. L. Moore. 1897. n. t. p. 6 pp.
- B73 Brazos River flood bulletin. July 15, 1889. (Map.)
- C38 Charts showing daily river stages in feet. 1892. 19 x 24 in.
- C49 Cipher code of wind signal orders, amending instructions to special display men. Nov., 1892. 10 pp.

A29. WEATHER BUREAU—Continued

Classifica-
tion no.

A29.2: General publications—Continued

- C61¹ Climate and Health (monthly periodical). [Announcing discontinuance of publication of Climate and Health.] June 22, 1896. (Circ.)
- C61² Climatic charts of U. S., 1900. [26 charts bound.]
[Each chart was originally issued separately.]
- C62¹ Cloud forms. Description of cloud forms. n. d. (Chart.)
- C62² Same, 2d edition. n. d.
- C62³ Same, 3d edition. n. d.
- C62⁴ Same, 4th edition. n. d.
- C93 Current chart of Great Lakes. 1892. Probable currents of Great Lakes [deduced from bottle paper observations]. 1893. 24 x 34 in. (Chart.)
- C99 Cyclones. Development and movement of cyclones, as shown in morning and evening weather maps Apr. 2-6, 1892; prepared by C. F. Marvin. 1893. [18] pp. Oblong l. 8°
- D14 Dakotas. Certain climatic features of two Dakotas; by John P. Finley. 1893. 206 pp. 89 pl. 4°
Same, 52d Cong., 1st sess., S. ex. doc. 157; serial no. 2893.
- D51 Dew-point. Tables for obtaining temperature of dew-point, relative humidity, etc. [From instructions to voluntary observers. 1892. In A29.12:V88.] 1897. pp. 66-98. (c. t. o.)
- F76 Forecaster and newspaper; by Harvey Maitland Watts. 1901. 22 pp.
- F92 Frost. Injury and methods of protection from frost; by W. H. Hammon. 1896. 12 pp. (For revised ed., see A29.3:23.)
- F94 Fruits. Protection of fruits, vegetables, and other food products, from injury by heat or cold during transportation; by Mark W. Harrington. Aug. 22, 1894. n. t. p. 7 pp.
- G81¹ Great Lakes. Display of wind signals on Great Lakes. 1895. (Circular of information.) 13 pp. 1 pl.
- G81² Same. 1896. 18 pp. 1 pl.
- G81³ Great Lakes. Wreck chart of Great Lakes. 1886-91. (Broadside.)
- G81⁴ Same. 1886-93. (Broadside.)
- G81⁵ Great Lakes. Wrecks which occurred on Great Lakes Dec. 17, 1885, to Nov. 15, 1893. 1894. 22 pp.
- G81⁶ Great Lakes. Wrecks and casualties on Great Lakes during 1895, 1896, 1897; by Norman B. Conger. 1898. 23 pp.
- G81⁷ Great Lakes. -Wreck and casualty chart of Great Lakes. 1894. (Broadside.)
- G81⁸ Great Lakes. Section map of Great Lakes. [1892.] (Chart 19 x 24 inches,
- H94 Hurricane of Aug. 13-16, 1901, on Louisiana and Mississippi coasts. Special report on. [1901.] n. t. p. 6 pp.
- In8 [International symbols recommended for use by Meteorological Congress, Munich, 1892; by Mark W. Harrington.] Jan. 1, 1894. n. t. p. 5 pp.
- L15 Lake levels. Variations in lake levels and atmospheric precipitation; by Alfred J. Henry. 1899. 8 pp.
- L62¹ Lightning. Protection from lightning; by Alexander McAdie. 1894. (Circular of information.) 20 pp. 11 pl.
- L62² Same. 2d edition. 1894. 21 pp. 6 pl.
- L62³ Same. 3d edition. 1894. 21 pp. 6 pl.
See, for 4th ed., A29.3:15.
- N27 Nebraska. Departures from normal temperature and rainfall with crop yields in Nebraska; by H. H. C. Dunwoody. 1896. 30 pp. 4°
- N81 North Pacific coast weather map. Explanation of North Pacific coast weather map; by Willis L. Moore. 4 pp. 16°
- P11 Pacific slope. Weather forecasting and weather types on North Pacific slope; by B. S. Pague and S. M. Blandford, Portland, Oreg. 1897. 29+[1] pp.
- P19 Pan-American Exposition weather maps; with special color-printed envelope. [1901.] (Broadside.)
- P21 Paris. Responses to programme of questions proposed for discussion at Paris International Meteorological Congress, Sept., 1896. 1896. 29 pp.
- P91¹ Precipitation. Details of precipitation (rain and melted snow) at stations in Nebraska and South Dakota. Mar. 6, 1894. 33 pp.*

* No copy found.

Tables

Classification no.

A29. WEATHER BUREAU—Continued

A29.2: General publications—Continued

- P91² Precipitation. Tables of daily precipitation at special river and rainfall stations of U. S. Weather Bureau, for 1893, 1894, 1895. 1900. [2.] 256 pp.
- P91³ Precipitation. Table showing depth of precipitation corresponding to given weights. [1892.] card. 12°.
- P95 Psychrometric tables for obtaining vapor pressure, relative humidity, and temperature of dew-point; prepared by C. F. Marvin. 1900. 84 pp.
- R13¹ Rainfall chart. Lines of equal time of water travel at Cairo, Ill. [1892.] 22 x 28 in.
- R13² Rainfall laws, deduced from twenty years' observations; by Gustavus Hinrichs. Weather Bureau, 1893. 94 pp.
- R52¹ River and flood service. Chart of river and flood service. 1897.
- R52² River and flood service charts, showing area covered by water of Mississippi River in April, 1897. 1897.*
- Sa2 St. Marys Falls Canal. Relation of certain atmospheric changes to changes in water level in St. Marys Falls Canal. 1894. n. t. p. 2 pp. 4°
- Si2¹ Signal Service. Statement of expenditures of Signal Service and Weather Bureau. 1893. 3 pp.
- Si2² Same. 1895. 3 pp. 4°
- Su7¹ Sunshine. Table of monthly amounts of possible sunshine for hours ending shortly after sunrise (and) sunset. 1894. 2 pp. card.
- Su7² Sunshine table 1. Local time of sunrise and sunset for north latitudes, from 25° to 49°, inclusive. 2 pp. card.
- T11 Tables for dividing by 672, 720, 744, 56, 60, 62. Records Division, Weather Bureau. 1893. 15 pp.
- T34 Thermometer scales. Comparison of thermometer scales. [1892.] card.
- T43¹ Thunderstorm observations. [Circular of instructions.] [1892.] 2 pp.
- T43² Same. [1893.] 2 pp.
- W37¹ Weather Bureau. [Its history and work.] 1901. 15 pp. 24°
[For distribution at Pan-American Exposition.]
- W37² Weather charts. Explanation of weather charts. (Single sheet.) [1892.] f°
- W37³ Weather code, Dec. 1, 1892. 1892. 93 pp. 4°
- W37⁴ Same, Dec. 1, 1896. 1896. 116 pp. 4°
- W37⁵ Same, Mar. 1, 1902. 1902. 93 pp. 4°
- W37⁶ Weather map. Explanation of weather map; by Willis L. Moore. 3 pp. 16°
- W37⁷ Weather map, Dec. 13-16, 1893. [Wall map, 52 x 56 in.] 1894.

A29.3: Bulletins

- 1 No. 1. Notes on climate and meteorology of Death Valley, California; by Mark W. Harrington. 1892. 50 pp.
- 2 No. 2. Notes on new method for discussion of magnetic observations; by Frank H. Bigelow. 1892. 40 pp. 1 pl.
- 3 No. 3. Relations of soil to climate; by E. W. Hilgard. 1892. 59 pp.
- 4 No. 4. Some physical properties of soils in their relation to moisture and crop distribution; by Milton Whitney. 1892. 90 pp.
- 5 No. 5. Observations and experiments on fluctuations in level and rate of movement of ground water on Wisconsin Agricultural Experiment Station farm, and at Whitewater, Wis.; by Franklin H. King. 1892. 75 pp. 6 pl.
- 6 No. 6. Diurnal variation of barometric pressure; by Frank N. Cole. 1892. 32 pp.
- 7 No. 7. Report of first annual meeting of American Association of State Weather Services. 1893. 49 pp.
- 8 No. 8. Climatology of cotton plant; by P. H. Mell. 1893. 68 pp. 1 pl.
- 9 No. 9. Forecasting of thunderstorms during summer of 1893; by N. B. Conger. 1893. 54 pp. 6 pl.
- 10 No. 10. Climate of Chicago; by Henry A. Hazen. 1893. 137 pp. 4 pl.

* No copy found.

Classification
no.**A29. WEATHER BUREAU**—Continued**A29.3: Bulletins**—Continued

- 11¹ No. 11. Report of International Meteorological Congress, Chicago, Aug. 21–24, 1893, under auspices of Congress Auxiliary of World's Columbian Exposition; edited by Oliver L. Fassig. [pt. 1.] 1894. xv+206 pp. 10 pl.
- 11² Same, pt. 2. 1895. [4]+xv-xvi+207–583 pp. 15 pl.
- 11³ Same, pt. 3. 1896. [2]+xvii-xxi+585–772 pp. 18 pl.
- 12 No. 12. Condensation of atmospheric moisture; by Carl Barus. 1895. 104 pp.
- 13¹ No. 13. Temperatures injurious to food products in storage and during transportation, and methods of protection from same; by H. E. Williams. 1894. 20 pp.
- 13² Same, [2d edition]. 1896. 20 pp.
- 14 No. 14. Report of third annual meeting of American Association of State Weather Services, [Brooklyn]. 1894. 31 pp.
- 15 No. 15. Protection from lightning; by A. McAdie. [4th edition revised.] 1895. 26 pp. 8 pl.
See for 1st–3d eds., A29.2: L62.
- 16 No. 16. Determination of relative quantities of aqueous vapor in atmosphere, by means of absorption lines of the spectrum; by L. E. Jewell. 1896. 12 pp. 2 pl.
- 17 No. 17. Work of Weather Bureau in connection with rivers of United States. 1896. 106 pp. 4 pl.
- 18 No. 18. Report of fourth annual meeting of American Association of State Weather Services, Indianapolis, Ind., Oct. 16, 17, 1895. 1896. 55 pp.
- 19 No. 19. Report on relative humidity of southern New England and other localities; by Alfred J. Henry. 1896. 23 pp. 4 pl.
- 20 No. 20. Storms, storm tracks, and weather forecasting; by Frank H. Bigelow. 1897. 87 pp.
- 21 No. 21. Abstract of report on solar and terrestrial magnetism, in their relations to meteorology; by Frank H. Bigelow. 1898. 176 pp. 9 pl.
- 22 No. 22. Climate of Cuba, also Note on weather of Manila; by W. F. R. Phillips. 1898. 23 pp.
- 23 No. 23. Frost: when to expect it and how to lessen the injury therefrom; by W. H. Hammon. [Revised ed.] 1899. 37 pp.
See for 1st ed. A29.2:F92.
- 24 No. 24. Proceedings of convention of Weather Bureau officials, Omaha, Nebr., Oct. 13, 14, 1898; edited by James Berry. 1899. 184 pp. 1 pl.
- 25 No. 25. Weather forecasting: some facts historical, practical, and theoretical; by Willis L. Moore. 1899. 16 pp.
- 26 No. 26. Lightning and electricity of air; [articles] by Alexander G. M'Adie and Alfred J. Henry. 2 pts. in 1. 1899. 74 pp. 4 pl.
- 27 No. 27. Probable state of sky along path of total eclipse of sun, May 28, 1900, observations of 1899; by Frank H. Bigelow. 1899. 23 pp. 4 charts.
- 28 No. 28. Climate of San Francisco, Cal.; by Alexander G. M'Adie and George H. Willson. 1899. 30 pp. 2 pl.
- 29 No. 29. Frost fighting; by Alexander G. McAdie. 1900. 15 pp. 6 pl.
- 30 No. 30. Loss of life in U. S., by lightning; by Alfred J. Henry. 1901. 21 pp. 4 pl.
- 31 No. 31. Proceedings of 2d convention of Weather Bureau officials, held at Milwaukee, Wis., Aug. 27–29, 1901; edited by James Berry and W. F. R. Phillips. 1902. 246+[1] pp. 38 pl.
- 32 No. 32. Hurricanes, especially those of Porto Rico and St. Kitts; by William H. Alexander. 1902. 79 pp.

A29.3': Bulletins (separates)

[Some of the articles in the Bulletins are issued separately.]

A29.4: Circulars

None issued.

Tables

Classifica-
tion no.

A29. WEATHER BUREAU—Continued

A29.5: Bulletins (lettered)

- A A. Summary of international meteorological observations; by H. H. C. Dunwoody. 1893. 10 leaves. 53 pl. eleph f°
- B¹ B. Currents of Great Lakes, as deduced from movements of bottle papers, during seasons of 1892 and 1893; by Mark W. Harrington. 1894. 6 leaves. 6 pl. eleph. f°
- B² Same, revised edition. 1895. 14 pp. 6 pl. eleph. f°
- (¹) C. Rainfall and snow of United States, compiled to end 1891, with annual, seasonal, monthly, and other charts; by Mark W. Harrington. 1894. 80 pp. 4°.
- (²) Same, Atlas. 1894. 25 pl. eleph. f°
- D D. Rainfall of United States, with annual, seasonal, and other charts; by Alfred J. Henry. 1897. 58 pp. 15 pl.
- E E. Floods of Mississippi River; by Park Morrill. 1897. vi+79 pp. 58 pl. 4°
- F F. Vertical gradients of temperature, humidity, and wind direction. Preliminary report on kite observations of 1898; by H. C. Frankenhield. 1899. 71 pp. 7 pl. 4°
- G G. Atmospheric radiation, a research conducted at Allegheny Observatory and at Providence, R. I.; submitted to Chief of Weather Bureau by Frank W. Very. 1900. 134 pp. 4°
- H H. West Indian hurricanes; by E. B. Garriott. 1900. iii+69 pp. 7 charts. 4°
- I I. Eclipse, meteorology, and allied problems; by Frank H. Bigelow. 1902. 166 pp. 43 charts. 4°
- J J. Wind velocity and fluctuations of water level on Lake Erie; by Alfred J. Henry. 1902. 22 pp. 25 pl.

A29.6: Monthly weather review

[Vols. 1-18 and nos. 1-6 of vol. 19 issued by Signal Service, War Department, W42.20: The chart numbers are given as they appear on the publications, regardless of the fact that they are printed on both sides of a page.]

- 19 V. 19. [1891] n. t. p.
No. 7. July. pp. 155-179. 4 ch. 1 pl.
No. 8. Aug. pp. 181-207. 4 ch. 1 pl.
No. 9. Sept. pp. 209-232+ix. 4 ch. 1 pl.
No. 10. Oct. pp. 233-258. 5 ch. 1 pl.
No. 11. Nov. pp. 259-287. 7 ch.
No. 12. Dec. pp. 289-330+x. 13 ch.
- 20 V. 20. [1892] n. t. p.
No. 1. Jan. pp. 1-31. 7 ch.
No. 2. Feb. pp. 33-59. 7 ch.
No. 3. Mar. pp. 61-87. 7 ch.
No. 4. Apr. pp. 89-116. 5 ch.
No. 5. May. pp. 117-147. 5 ch.
No. 6. June. pp. 149-178. 4 ch.
No. 7. July. pp. 179-206. 4 ch.
No. 8. Aug. pp. 207-234. 4 ch.
No. 9. Sept. pp. 235-260. 4 ch.
No. 10. Oct. pp. 261-288. 5 ch.
No. 11. Nov. pp. 289-318. 6 ch.
No. 12. Dec. pp. 319-346+10. 7 ch.
- 21 V. 21. 1893. Washington, D. C., Weather Bureau. 1894.
No. 1. Jan. pp. 1-30. 9 ch.
No. 2. Feb. pp. 31-60. 8 ch.
No. 3. Mar. pp. 61-90. 6 ch.
No. 4. Apr. pp. 91-122. 6 ch.
No. 5. May. pp. 123-152. 6 ch.
No. 6. June. pp. 153-178. 5 ch.
No. 7. July. pp. 179-204. 5 ch.
No. 8. Aug. pp. 205-240. 5 ch.
No. 9. Sept. pp. 241-267. 6 ch.
No. 10. Oct. 269-307. 6 ch.
No. 11. Nov. 309-342. 7 ch.

Classification no.

A29. WEATHER BUREAU—Continued**A29.6: Monthly weather review**—Continued

- 21 V. 21. 1893. Washington, D. C., Weather Bureau. 1894—Continued
 No. 12. Dec. 343-376. 7 ch.
 No. 13. Annual Summary. pp. 377-390+vi. 7 ch.
- 22 V. 22. 1894. Washington: Weather Bureau. 1895.
 No. 1. Jan. pp. 1-45. 6 ch.
 No. 2. Feb. pp. 47-97. 6 ch.
 No. 3. Mar. pp. 99-147. 8 ch.
 No. 4. Apr. pp. 149-191. 5 ch.
 No. 5. May. pp. 193-234. 4 ch.
 No. 6. June. pp. 235-272. 4 ch.
 No. 7. July. pp. 273-310. 4 ch.
 No. 8. Aug. pp. 311-350. 4 ch.
 No. 9. Sept. pp. 351-392. 6 ch.
 No. 10. Oct. pp. 393-439. 6 ch.
 No. 11. Nov. pp. 441-485. 7 ch.
 No. 12. Dec. pp. 487-533. 7 ch.
 No. 13. Annual Summary. pp. 535-547+vii. 3 ch.
- 23 V. 23. 1895. Washington: Weather Bureau. 1896.
 No. 1. Jan. pp. 1-45. 32 ch.
 No. 2. Feb. pp. 47-80. 7 ch.
 No. 3. Mar. pp. 81-116. 9 ch.
 No. 4. Apr. pp. 117-155. 6 ch.
 No. 5. May. pp. 157-197. 8 ch.
 No. 6. June. pp. 199-239. 5 ch.
 No. 7. July. pp. 241-282. 6 ch.
 No. 8. Aug. pp. 283-324. 5 ch.
 No. 9. Sept. pp. 325-364. 6 ch.
 No. 10. Oct. pp. 365-407. 6 ch.
 No. 11. Nov. pp. 409-448. 8 ch.
 No. 12. Dec. pp. 449-487. 1 pl. 7 ch.
 No. 13. Annual Summary. pp. 489-501+vii. 5 ch.
- 24 V. 24. 1896. Washington: Weather Bureau. 1897.
 No. 1. Jan. pp. 1-38. 7 ch.
 No. 2. Feb. pp. 39-68. 7 ch.
 No. 3. Mar. pp. 69-103. 9 ch.
 No. 4. Apr. pp. 105-144. 9 ch.
 No. 5. May. pp. 145-190. 12 ch.
 No. 6. June. pp. 191-228. 6 ch.
 No. 7. July. pp. 229-280. 8 ch.
 No. 8. Aug. pp. 281-314. 4 ch.
 No. 9. Sept. pp. 315-358. 6 ch.
 No. 10. Oct. pp. 359-395. 5 ch.
 No. 11. Nov. pp. 397-442. 9 ch.
 No. 12. Dec. pp. 443-485. 6 ch.
 No. 13. Annual Summary. pp. 487-496+vi. 5 ch.
- 25 V. 25. 1897. Washington: Weather Bureau. 1898.
 No. 1. Jan. pp. 1-42. 7 ch.
 No. 2. Feb. pp. 43-84. 7 ch.
 No. 3. Mar. pp. 85-121. 6 ch.
 No. 4. Apr. pp. 123-188. 6 ch.
 No. 5. May. pp. 189-234. 5 ch.
 No. 6. June. pp. 235-283. 5 ch.
 No. 7. July. pp. 285-338. 5 ch.
 No. 8. Aug. pp. 339-379. 6 ch.
 No. 9. Sept. pp. 381-424. 8 ch.
 No. 10. Oct. pp. 425-470. 6 ch.
 No. 11. Nov. pp. 471-516+[1]. 9 ch.
 No. 12. Dec. pp. 519-568. 7 ch.
 No. 13. Annual Summary. pp. 569-579+7. 5 ch.
- 26 V. 26. 1898. Washington: Weather Bureau. 1899.
 No. 1. Jan. pp. 1-43. 13 ch.
 No. 2. Feb. pp. 45-89. 10 ch.
 No. 3. Mar. pp. 91-137. 13 ch.

Tables

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A29. WEATHER BUREAU—Continued

A29.6: Monthly weather review—Continued

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| 26 | <p>V. 26. 1898. Washington: Weather Bureau. 1899—Continued</p> <p>No. 4. Apr. pp. 139-193. 8 ch.</p> <p>No. 5. May. pp. 195-240. 12 ch.</p> <p>No. 6. June. pp. 241-290. 7 ch.</p> <p>No. 7. July. pp. 291-341. 12 ch.</p> <p>No. 8. Aug. pp. 343-390. 7 ch.</p> <p>No. 9. Sept. pp. 391-437. 17 ch.</p> <p>No. 10. Oct. pp. 439-492. 11 ch.</p> <p>No. 11. Nov. pp. 493-525. 12 ch.</p> <p>No. 12. Dec. pp. 527-591. 12 ch.</p> <p>No. 13. Annual Summary. pp. 593-605+x. 5 ch.</p> |
| 27 | <p>V. 27. 1899. Washington: Weather Bureau. 1900.</p> <p>No. 1. Jan. pp. 1-40. 9 ch.</p> <p>No. 2. Feb. pp. 41-87. 6 pl. 13 ch.</p> <p>No. 3. Mar. pp. 89-138. 13 ch.</p> <p>No. 4. Apr. pp. 139-186. 11 ch.</p> <p>No. 5. May. pp. 187-241. 6 pl. 8 ch.</p> <p>No. 6. June. pp. 243-285. 9 ch.</p> <p>No. 7. July. pp. 287-341. 3 pl. 8 ch.</p> <p>No. 8. Aug. pp. 343-393. 2 pl. 12 ch.</p> <p>No. 9. Sept. pp. 395-448. 11 ch.</p> <p>No. 10. Oct. pp. 449-502. 1 pl. 9 ch.</p> <p>No. 11. Nov. pp. 503-533. 9 ch.</p> <p>No. 12. Dec. pp. 535-575. 10 ch.</p> <p>No. 13. Annual Summary. pp. 577-597+ix. 5 ch.</p> |
| 28 | <p>V. 28. 1900. Washington: Weather Bureau. 1901.</p> <p>No. 1. Jan. pp. 1-49. 10 ch.</p> <p>No. 2. Feb. pp. 51-93. 1 pl. 11 ch.</p> <p>No. 3. Mar. pp. 95-139. 10 ch.</p> <p>No. 4. Apr. pp. 141-191. 9 ch.</p> <p>No. 5. May. pp. 193-238. 8 ch.</p> <p>No. 6. June. pp. 239-278. 8 ch.</p> <p>No. 7. July. pp. 279-320. 3 pl. 8 ch.</p> <p>No. 8. Aug. pp. 321-370. 8 ch.</p> <p>No. 9. Sept. pp. 371-424. 13 ch.</p> <p>No. 10. Oct. pp. 425-476. 10 ch.</p> <p>No. 11. Nov. pp. 477-525. 2 pl. 10 ch.</p> <p>No. 12. Dec. pp. 527-583. 1 pl. 10 ch.</p> <p>No. 13. Annual Summary. pp. 585-599+x. 7 ch.</p> |
| 29 | <p>V. 29. 1901. Washington: Weather Bureau. 1902.</p> <p>No. 1. Jan. pp. 1-47. 10 ch. 2 pl.</p> <p>No. 2. Feb. pp. 49-97. 13 ch. 5 pl.</p> <p>No. 3. Mar. pp. 99-143. 9 ch. 1 pl.</p> <p>No. 4. Apr. pp. 145-199. 9 ch.</p> <p>No. 5. May. pp. 201-241. 10 ch. 4 pl.</p> <p>No. 6. June. pp. 243-289. 4 pl.</p> <p>No. 7. July. pp. 291-339. 1 l. 9 ch. 1 pl.</p> <p>No. 8. Aug. pp. 341-397. 8 ch. 3 pl.</p> <p>No. 9. Sept. pp. 399-445. 10 ch.</p> <p>No. 10. Oct. pp. 447-487. 9 ch. 1 pl.</p> <p>No. 11. Nov. pp. 489-533. 13 ch.</p> <p>No. 12. Dec. pp. 535-589. 10 ch.</p> <p>No. 13. Annual Summary, 1901. pp. 591-613+ix. 7 ch.</p> |
| 30 | <p>V. 30. 1902.</p> <p>No. 1. Jan. pp. 1-59. 10 ch.</p> <p>No. 2. Feb. pp. 61-108. 10 ch.</p> <p>No. 3. Mar. pp. 109-156. 9 ch.</p> <p>No. 4. Apr. pp. 157-243. 12 ch.</p> <p>No. 5. May. pp. 245-292. 8 ch. 1 pl.</p> <p>No. 6. June. pp. 293-340. 8 ch.</p> <p>No. 7. July. pp. 341-392. 8 ch.</p> <p>No. 8. Aug. pp. 393-432. 8 ch.</p> <p>No. 9. Sept. pp. 433-472. 8 ch.</p> <p>No. 10. Oct. pp. 473-510. 8 ch.</p> |

Classifica-
tion no.**A29. WEATHER BUREAU**—Continued**A29.6:** **Monthly weather review** (separates)

[Some of the more important articles in the Review were issued separately in pamphlet form.]

A29.7: **Climate and crop bulletin** (broadside)

[The Climate and Crop Bulletin is issued weekly from April to September during the season of planting, cultivating, and harvesting of crops, and monthly from October to March. The title "Climate and Crop Bulletin" was adopted February, 1896, the bulletin having been previously issued under the title "Weather-Crop Bulletin." This publication deals with the general weather and crop conditions of the United States, while bulletins showing more detailed information for the several States are issued from the central stations of 43 climate and crop centers. A Climate and Crop Bulletin of the cotton region, dealing more particularly with the weather conditions affecting the cotton crop, is published weekly at New Orleans from about May 1 to the latter part of October. Cotton Region Bulletins containing temperature and rainfall observations reported by telegraph from about 150 stations in the Southern States are issued daily from 12 district centers in the cotton belt from April 16 to October 31. Corn and Wheat Region Bulletins, identical in character with the preceding, are issued daily from 9 district centers in the corn and wheat belt from April 1 to September 30. Fruit and Wheat Bulletins, also identical, are issued from San Francisco during June, July, and August.]

Weather-crop bulletin.

[Nos. 1-21 issued by Signal Office, U. S. A.]

- 891 1891. Nos. 22-39.
- 892 1892. Nos. 1-33.
- 893 1893. Nos. 1-32.
- 894 1894. Nos. 1-32.
- 895 1895. Nos. 1-32.
- 896¹ 1896. No. 1.

Climate and crop bulletin.

- 896² 1896. Nos. 2-32.
- 897 1897. Nos. 1-32.
- 898 1898. Nos. 1-31.
- 899 1899. Nos. 1-31.
- 900 1900. Nos. 1-32.
- 901 1901. Nos. 1-32.
- 902 1902. Nos. 1-30.

A29.8: **Climate and Health**

[Contains reports of "systematic investigation to ascertain the relationships and applicability of climatic and weather conditions to sanitary science." Issued monthly, July, 1895, to March, 1896, and then discontinued.]

- 1895. V. 1, nos. 1-6. July-Dec. 1895.
 - No. 1. July. pp. 1-25. 20 ch.
 - No. 2. Aug. pp. 27-58. 25 ch.
 - No. 3. Sept. pp. 59-82. 20 ch.
 - No. 4. Oct. pp. 83-107. 20 ch.
 - No. 5. Nov. pp. 109-145. 24 ch.
 - No. 6. Dec. pp. 147-174. 12 ch.
 - 2 1896. v. 2, nos. 1-3. Jan.-Mar. 1896.
 - No. 1. Jan. 1-35. 14 ch.
 - No. 2. Feb. 37-64. 12 ch.
 - No. 3. Mar. 65-92. 12 ch. 1 diagram.
- [Discontinued Mar. 28, 1896.]

A29.9: **Cold wave bulletin** (broadside)

- 1 No. 1. Cold wave of Jan. 2-5, 1896. Jan. 8, 1896. (Chart.)

A29.10: **Daily river stages**

- Pts. 1-3. Issued by Signal Office, War Department.
- 4¹ Pt. 4. Principal rivers of U. S., 1890-92; by Thomas Russell. lxvii. 4°
- 4² Same, with gauge readings. lxvii+439 pp. 10 charts. 4°
- 5¹ Pt. 5. Principal rivers of U. S., 1893-95; by Park Morrill. lxii pp. 4°
- 5² Same, with gauge readings. lxii+555 pp. 4°
- 6 Pt. 6. Principal rivers of U. S., 1896-99; by H. C. Frankenfield. 1900. 446 pp. 4°

Tables

Classifica-
tion no.

A29. WEATHER BUREAU—Continued

A29.11: Instrument Room (or Division) circulars

- A¹ A. Instructions for obtaining and transcribing records from recording instruments. Washington, Weather Bureau. 1892. 12 pp.
- A² Same, rev. ed.; by C. F. Marvin. 1894. 40 pp.
- A³ A. Instructions for obtaining and tabulating records from recording instruments; by C. F. Marvin. 1898. 31 pp.
- B¹ B. Directions for use of maximum and minimum thermometers. Washington, Weather Bureau. 1892. 11 pp.
- B² B. Instructions for use of maximum and minimum thermometers, rev. ed. 1895. 16 pp.
- C¹ C. Instructions for use of rain-gauge. Washington, Weather Bureau, 1892. 8 pp.
- C² Same, rev. ed. 1895. 11 pp.
- D¹ D. Anemometry, a circular of general information respecting theory and operation of typical instruments for indicating, measuring, and automatically recording wind movement and direction, etc.; prepared by C. F. Marvin. Washington, Weather Bureau. 1893. 40 pp.
- D² Same. 1900. 67 pp. 1 pl.
- E¹ E. Instructions for using Marvin's weighing rain and snow gauge [by C. F. Marvin]. 1893. 16 pp.
- E² E. Measurement of precipitation; by C. F. Marvin. 1899. 28 pp.
- F¹ F. Barometers and measurement of atmospheric pressure; by C. F. Marvin. 1894. 74 pp.
- F² Same, 2d edition. 1901. 94 pp.
- G¹ G. Instructions for use of combined maximum and minimum soil thermometers; by C. F. Marvin and Milton Whitney. 1894. 8 pp.
- G² G. Instructions for care and management of sunshine recorders; by C. F. Marvin. 1896. 18 pp.
- G³ Same, 2d ed. 1901. 19 pp.
- H H. Instructions for use of maximum and minimum radiation thermometers; by C. F. Marvin and Milton Whitney. 1894. 10 pp.
- [No circulars I or J will be issued.]
- K K. Instructions for aerial observers; by C. F. Marvin. 1898. 33 pp. 3 pl.

A29.12: Instructions (unnumbered)

- An3 Aneroid barograph. Instructions for use of aneroid barograph on Great Lakes. Washington, Weather Bureau. 1897. 7 pp.
- C81 Corn. Instructions governing corn, wheat, cotton, sugar, and rice region service; by James Berry. Washington, Weather Bureau. 1897. 9 pp. 1 table.
- C82¹ Cotton region. Instructions to observers and code for enciphering reports at cotton region and sugar and rice stations of Weather Bureau. Washington, D. C., Weather Bureau. 1892. 27 pp.
- C82² Same. 1895. 39 pp.
- D63¹ Displaymen. Instructions to special displaymen. Washington, D. C., Weather Bureau. 1892. 13 pp. 12°.
- D63² Displaymen. Instructions to wind-signal displaymen. Washington, Weather Bureau. 1896. 11 pp. 1 pl.
- Ob7 Observers. Instructions for observers. 1895. 82 pp.
- R13 Rainfall observers. Instructions to special rainfall observers. Washington, D. C., Weather Bureau. 1893. 22 pp.
- R52¹ River observers. Instructions for special river observers; by Thomas Russell. Washington, D. C., Weather Bureau. 1892. 54 pp.
- R52² River observers. Instructions for special river observers. 1894. 49 pp.
- R52³ River observers. Instructions to special river and rainfall observers. 1902. 48 pp.
- Se1¹ Seacoast telegraph lines. Instructions to operators on United States seacoast telegraph lines; by E. L. Bugbee. 1892. 24 pp.
- Se1² Seacoast telegraph lines. Instructions to operators on seacoast telegraph lines; by J. H. Robinson. Washington, Weather Bureau. 1897. 26 pp. 1 pl.
- Su7 Sunshine recorder. Instructions for using glass electrical sunshine recorder, pattern, 1893. n. t. p. [1893.] 4 pp.

Classification no.

A29. WEATHER BUREAU—(Continued)**A29.12: Instructions** (unnumbered)—(Continued)

- V88¹ Voluntary observers. Instructions for voluntary observers; by T. Russell. 1892. 100 pp.
- V88² Voluntary observers. Instructions for voluntary observers. Washington, Weather Bureau. 1897. 22 pp. 1 pl.
- V88³ Same, Washington, Weather Bureau. 1899. 23 pp. 1 pl.
- V88⁴ Same, 2d edition, comprising circulars B and C, instrument room. 1901. 28 pp. 1 pl.

A29.13: Meteorological chart of the Great Lakes (20 x 25 in.)

- 897 1897. Oct.—Dec.
- 898 1898. Apr.—Dec. and Summary for year.
- 899 1899. May—Dec.; Summary for 1899; V. 2, no. 9; by A. J. Henry and N. B. Conger. 1899. 28 pp. 12 charts. 4°
- 900 1900. May—Dec. Nos. 1–8; Summary for season; by A. J. Henry and N. B. Conger. V. 3, no. 9 [erroneously printed 10]. 23 pp. 14 ch. 4°
- 901¹ 1901. No. 1. [No monthly date, received June 21, 1901.] 28 pp. 4 ch. 4°
- 901² No. 2. Summary for season [no monthly date, received Jan. 30, 1902]. 32 pp. 8 ch. 4°
- 902 1902. No. 1. 26 pp. 1 pl. 4°

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- Monthly report (reprinted from Monthly Weather Review).
- 897 1897. Sept., 11 pp. 1 pl.
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- 898 1898. Jan., 18 pp. 1 pl.
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- [Discontinued.]

A29.15: Sanitary climatology circulars

- 1 No. 1. [Asking cooperation of physicians, boards of health, etc.] Jan. 2, 1895. (Circ.)
- 2 No. 2. [To officials of United States weather bureaus on methods of keeping statistics, etc.] Jan. 2, 1895. (Circ.)
- 3 No. 3. [To publishers of periodicals, newspapers, etc.] Jan. 2, 1895. (Circ.)
- 4 No. 4. Information relative to investigation of influence of climate on health. [1895.] 7 pp.
- [Series discontinued.]

A29.16: Snow and ice bulletin

[Issue begun Feb., 1892. Issued in weekly numbers from early in December to latter part of March. First title, "Depth of Snow on Ground," used to Mar. 30, 1896; changed to "Snow and Ice Chart," and continued under that name until Feb. 21, 1899, when the present title was substituted. Shows area covered by snow, its depth, and the thickness of ice in rivers and harbors.]

A29.17: Storm bulletin

- LAKE STORM BULLETIN.
- 893 1893, nos. 1–5.
- 894¹ 1894, no. 1.
- STORM BULLETIN.
- 894² 1894, nos. 2, 3.
- 895 1895, nos. 1–3.
- 896 1896, nos. 1–5.
- 897 1897 (none issued).

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A29.17: Storm bulletin—Continued

Storm bulletin—Continued

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899	1899, no. 1.
900	1900, no. 1.

A29.18: Weather map (broadside)

[This publication, issued at the Weather Bureau in Washington, is the only Government publication issued every day in the year, Sundays and holidays included. At 94 stations of the Weather Bureau smaller weather maps are issued daily, except Sundays and holidays. At 18 of the less important stations bulletins, containing practically the same meteorological data that appear on the weather maps, are issued.]

To an extent permitted by the editions, the maps and bulletins are furnished free of charge to business and commercial exchanges, corporations, firms, individuals, and educational institutions that will display them for the benefit of the public or use them for educational purposes.]

[Issued by Signal Office, tri-daily from Jan. 1, 1871, 7:35 a. m., to June 30, 1888; semi-daily, July 1, 1888, to June 30, 1891.]

Semi-daily.

891	1891, July 1-Dec. 31.
892	1892, Jan. 1-Dec. 31.
893	1893, Jan. 1-Dec. 31.
894	1894, Jan. 1-Dec. 31.
895 ¹	1895, Jan. 1-Sept. 30.

Daily.

895 ²	1895, Oct. 1-Dec. 31.
896	1896, Jan. 1-Dec. 31.
897	1897, Jan. 1-Dec. 31.
898	1898, Jan. 1-Dec. 31.
899	1899, Jan. 1-Dec. 31.
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APPENDIX

REPORTS WHICH ORIGINATED IN THE AGRICULTURE DEPARTMENT, BUT
WHICH WERE PRINTED ONLY AS CONGRESSIONAL DOCUMENTS

Appendix

- (1) 37th Cong., 3d sess., H. doc. 14; serial number 1159.
Letter from Commissioner of Department of Agriculture, in answer to resolutions in regard to expenditure of agricultural fund. Dec. 18, 1862. 8 pp.
(Contains statement of money paid for agricultural statistics, etc., July 1 to Dec. 5, 1862, and opinion of Attorney-General on transfer of unexpended appropriation and debts of Commissioner of Patents for agricultural purposes.)
- (2) 38th Cong., 1st sess., S. mis. doc. 13; serial number 1177.
Letter of Commissioner of Agriculture to Chairman Committee on Agriculture upon subject of taxation of tobacco as recommended by Commissioner of Internal Revenue. January 21, 1864. 6 pp.
(Shows reasons for dissent from proposition of Commissioner of Internal Revenue to tax leaf tobacco twenty cents per pound.)
- (3) 38th Cong., 2d sess., S. doc. 35; serial number 1209.
Letter of Commissioner of Agriculture, transmitting report of commission appointed to test practicability of cultivating and preparing flax or hemp as substitute for cotton. March 1, 1865. 96 pp.
- (4) 39th Cong., 1st sess., H. doc. 49; serial number 1255.
Reply of Commissioner of Agriculture to resolution relative to receipts and disbursements of that Department. February 21, 1866. 43 pp.
(An itemized account of all receipts and disbursements of the Department from its inception, May 15, 1862, to Jan. 30, 1866.)
- (5) 39th Cong., 1st sess., S. mis. doc. 98; serial number 1239.
Letter of Commissioner of Agriculture, communicating information in relation to rinderpest or cattle plague. April 18, 1866. 21 pp.
(History of disease, remedies and courses of treatment advisable, and measures necessary to prevent its spread.)
- (6) 39th Cong., 1st sess., S. mis. doc. 103; serial number 1239.
Communication from Commissioner of Agriculture relative to subject of curing seed and cultivating china grass. May 3, 1866. 5 pp.
- (7) 39th Cong., 1st sess., S. mis. doc. 124; serial number 1239.
Letter of Commissioner of Agriculture to Chairman Committee on Agriculture, transmitting communication from Argentine Republic in reference to purchase by our Government of flock of alpacas. July 5, 1866. 3 pp.
- (8) 40th Cong., 2d sess., H. doc. 55; serial number 1330.
Letter from Commissioner of Agriculture in answer to resolution relative to allowance of twenty per cent for last fiscal year. December 16, 1867. 1 p.
- (9) 40th Cong., 2d sess., H. doc. 91; serial number 1332.
Report of Commissioner of Agriculture in response to House resolution. January 13, 1868. 11 pp.
(Report on condition of Department, and legislation necessary for reorganization in keeping with its vast interests.)
- (10) 40th Cong., 2d sess., H. doc. 121; serial number 1337.
Letter from Commissioner of Agriculture relative to duty on importations of foreign stock. January 27, 1868. 2 pp.
- (11) 40th Cong., 2d sess., H. doc. 188; serial number 1337.
Letter from Commissioner of Agriculture, transmitting memorial of Tennessee Horticultural Society for removal of import duties on agricultural seeds, etc., and approving same. February 25, 1868. 2 pp.
- (12) 40th Cong., 3d sess., H. doc. 93; serial number 1381.
Letter from Commissioner of Agriculture relative to proposed international horticultural exhibition to be held at Hamburg Sept., 1869. February 24, 1869. 3 pp.
- (13) 41st Cong., 2d sess., H. ex. doc. 107; serial number 1417.
Letter from Commissioner of Agriculture in answer to resolution in relation to extent and value of foreign commodities susceptible of production within limits of country, as plants useful for dye-stuffs, medicines, and for other economic purposes. February 3, 1870. 5 pp.
(Letter includes table showing amount and value of articles imported at New York City, 1869, and their products.)

- (14) 42d Cong., 3d sess., H. ex. doc. 34; serial number 1565.
Letter from Commissioner of Agriculture, transmitting list of articles purchased and disposed of by his department since inventory made December 1, 1871. December 10, 1872. 2 pp.
- (15) 42d Cong., 2d sess., H. ex. doc. 17; serial number 1509.
Letter from Commissioner of Agriculture relative to inventory and accounts of property of U. S. in public buildings and grounds. December 11, 1871. 2 pp.
- (16) 42d Cong., 2d sess., S. mis. doc. 144; serial number 1482.
Letter from Commissioner of Agriculture, communicating, in compliance with resolution, statement of statistics of wools and woolens, showing importation and domestic production thereof. April 24, 1872. 6 pp.
- (17) 44th Cong., 1st sess., S. mis. doc. 75; serial number 1665.
Letter from Commissioner of Agriculture, transmitting, in answer to resolution, information in relation to soil and climate adapted to growth of sea-island cotton. March 10, 1876. 3 pp.
- (18) 44th Cong., 1st sess., S. mis. doc. 75, pt. 2; serial number 1665.
Letter from Commissioner of Agriculture, communicating, in answer to resolution, additional information in relation to cultivation of sea-island cotton. March 20, 1876. 2 pp.
- (19) 45th Cong., 2d sess., H. ex. doc. 24; serial number 1802.
Message from President of United States, transmitting special report upon subject of forestry by Commissioner of Agriculture. December 14, 1877. 3 pp.
(A short review of "Report on Forestry, by Franklin B. Hough.")
- (20) 45th Cong., 2d sess., S. ex. doc. 35; serial number 1780.
Message from President of the United States, communicating, in answer to resolution, information in relation to disease prevailing among swine and other domestic animals. February 28, 1878. 149 pp.
- (21) 45th Cong., 3d sess., S. mis. doc. 71; serial number 1833.
Letter from Commissioner of Agriculture to Chairman Committee on Agriculture, communicating information on subject of pleuro-pneumonia among cattle. February 15, 1879. 22 pp.
(Consists of many letters from men interested, history of disease and preventive measures adopted here and abroad.)
- (22) 47th Cong., 1st sess., H. mis. doc. 30; serial number 2046.
Communication from Commissioner of Agriculture relative to establishment of "Experiment Station" in District of Columbia. February 1, 1882. 6 pp.
(Letters showing advantages to foreign countries of experiment stations and our need for them.)
- (23) 47th Cong., 1st sess., H. mis. doc. 39; serial number 2046.
Letter from Commissioner of Agriculture, in response to resolution, relative to growth of cinchona in United States. May 17, 1882. 3 pp.
- (24) 47th Cong., 2d sess., S. mis. doc. 51; serial number 2083.
Investigation of scientific and economic relations of sorghum-sugar industry, by Committee of National Academy of Sciences. November, 1882. Washington, Government Printing Office, 1883. 152 pp.
(Contains: Report of committee; conclusion and summary; and appended papers: So-called Chinese sugar cane, by S. Wells Williams; Sorghum, by Louis Vilmorin; Sorghum, by Leonard Wray; Sorghum and some conclusions as to value as source of sugar, by Peter Collier; Statistics of sorghum, by J. R. Dodge; Sorghum sugar cane; Rio Grande Sugar Co., New Jersey; Champaign Sugar and Glucose Mfg. Co., Champaign, Ill.; Experiments in amber cane at Madison, Wisconsin; Experiments with sorghum canes, by Magnus Swenson; Varieties of cane grown for experiments, by W. A. Henry; Manufacture of sugar, sirup, and glucose from sorghum, by Henry H. Weber and Melville A. Scovell; Letters; and Bibliography.)
- (25) 48th Cong., 1st sess., S. ex. doc. 137; serial number 2167.
Letter from Commissioner of Agriculture, transmitting, in answer to resolution, statement of amount of certain grains produced in United States during certain periods, and their disposition. March 25, 1884. 12 pp.

Appendix

- (26) 48th Cong., 2d sess., H. ex. doc. 46; serial number 2296.

Letter from Commissioner of Agriculture, transmitting list of persons employed and statement of expenditures and of means adopted for suppression of contagious and infectious diseases among domestic animals. December 18, 1884. 8 pp.

- (27) 49th Cong., 1st sess., H. mis. doc. 154; serial number 2415.

Letter from Commissioner of Agriculture, transmitting statement of expenditures for fiscal year ended June 30, 1885. March 17, 1886. 43 pp.

- (28) 49th Cong., 1st sess., H. mis. doc. 240; serial number 2418.

Letter from Commissioner of Agriculture, transmitting, in response to resolution, statement showing amount expended for chemical division in laboratory from appropriation for present fiscal year and balance unexpended. April 27, 1886. 4 pp.

- (29) 49th Cong., 1st sess., H. mis. doc. 284; serial number 2418.

Letter from Commissioner of Agriculture, transmitting certain papers, in response to resolution calling for copy of Department circular of June 6, 1882; copy of award of committee appointed to carry provisions of circular into effect; copies of all correspondence with Delaware Beet-Sugar Co. on subject, and statement of awards paid and to whom. May 14, 1886. 6 pp.

(Circular offers awards to manufacturers of sorghum and beet sugar for best reports on methods used.)

- (30) 49th Cong., 1st sess., H. mis. doc. 303; serial number 2488.

Letter from Acting Commissioner of Agriculture, transmitting, in response to resolution, report by statistician of Department respecting supply and domestic requirement of wheat and corn, and acreage of wheat, for present year, as compared with past five years; also probable requirements of importing countries and acreage of crop and probable surplus or shortage in exporting countries for ensuing year. June 1, 1886. 11 pp.

- (31) 49th Cong., 2d sess., H. mis. doc. 20; serial number 2488.

Letter from Commissioner of Agriculture, transmitting report of expenditures for fiscal year ended June 30, 1886. December 14, 1886. 42 pp.

- (32) 50th Cong., 1st sess., S. ex. doc. 24; serial number 2504.

Letter from Commissioner of Agriculture in response to resolution relative to employes obtaining patents for process of sugar making. December 13, 1887. 5 pp.

(Letter in restraint of allowing patents to Magnus Swenson, and opinion of Attorney-General.)

- (33) 50th Cong., 1st sess., H. mis. doc. 122; serial number 2565.

Letter from Commissioner of Agriculture, transmitting statement of expenditures for fiscal year ended June 30, 1887. January 18, 1888. 81 pp.

- (34) 50th Cong., 1st sess., S. ex. doc. 68; serial number 2510.

Letter from Commissioner of Agriculture, transmitting, in response to resolution, report of Professor Swenson on sorghum sugar. February 6, 1888. 11 pp.

- (35) 50th Cong., 1st sess., S. ex. doc. 69; serial number 2510.

Letter from Commissioner of Agriculture, transmitting report for 1887 of Bureau of Animal Industry. February 6, 1888. 75 pp.

- (36) 50th Cong., 2d sess., S. mis. doc. 29; serial number 2614.

Letter of Commissioner of Agriculture, transmitting report of Joseph Neumann of result of his study and experiments of wild native silkworm of California. January 5, 1889. 5 pp.

- (37) 50th Cong., 2d sess., H. mis. doc. 62; serial number 2654.

Letter from Commissioner of Agriculture, transmitting report for 1888 of Bureau of Animal Industry. January 9, 1889. 116 pp.

- (38) 50th Cong., 2d sess., H. mis. doc. 135; serial number 2654.

Letter from Commissioner of Agriculture, transmitting report of Women's Silk Culture Association of United States for fiscal year 1888. March 2, 1889. 4 pp.

- (39) 51st Cong., 1st sess., S. ex. doc. 24; serial number 2682.

Letter of Secretary of Agriculture, transmitting report of operations of Bureau of Animal Industry for year 1889. January 8, 1890. 74 pp.

- (40) 51st Cong., 1st sess., H. ex. doc. 104; serial number 2741.
Letter from Secretary of Agriculture, transmitting statement of expenditures for fiscal year ended June 30, 1889. January 13, 1890. 98 pp.
- (41) 51st Cong., 1st sess., H. ex. doc. 110; serial number 2743.
Letter from Secretary of Agriculture, transmitting reports upon operations of Women's Silk Culture Association of United States and of Ladies' Silk Culture Society of California, and upon experiments made in District of Columbia with silk-reeling machinery. January 16, 1890. 30 pp.
(Includes also report of Joseph Neumann.)
- (42) 51st Cong., 1st sess., H. ex. doc. 423; serial number 2752.
Communication from Acting Secretary of Agriculture, in reference to deficiency in appropriation for North Dakota Agricultural Experiment Station, and stating that said appropriation should be made. June 21, 1890. 1 p.
- (43) 51st Cong., 1st sess., S. mis. doc. 179; serial number 2700.
Letter of Secretary of Agriculture, transmitting synopsis of report which the Department of Agriculture will make upon subject of irrigation by artesian wells. July 1, 1890. 7 pp.
(This is a short synopsis of (A15.2:Ar7).)
- (44) 51st Cong., 2d sess., H. ex. doc. 35; serial number 2855.
Letter from Secretary of Agriculture, transmitting statement of expenditures of all appropriations for fiscal year ended June 30, 1890. December 3, 1890. 95 pp.
- (45) 51st Cong., 2d sess., S. ex. doc. 8; serial number 2818.
Letter from Secretary of Agriculture, transmitting report of Bureau of Animal Industry [for year 1890]. December 11, 1890. 104 pp.
- (46) 51st Cong., 2d sess., S. ex. doc. 53, pt. 2; serial number 2818.
Letter from Secretary of Agriculture, transmitting, in additional response to resolution, report of progress of irrigation in months of November and December. January 20, 1891. 14 pp. 12 folded pl.
- (47) 51st Cong., 2d sess., H. ex. doc. 203; serial number 2863.
Letter from Secretary of Agriculture, transmitting statement of all purchases of cocoons and all sales of silk and silk waste during fiscal year ending June 30, 1890; also reports of Ladies' Silk Culture Society of California and Women's Silk Culture Association of United States. January 24, 1891. 25 pp.
- (48) 52d Cong., 1st sess., S. ex. doc. 11; serial number 2892.
Letter from Secretary of Agriculture, transmitting report of Bureau of Animal Industry for year 1891. December 22, 1891. 129 pp.
- (49) 52d Cong., 1st sess., H. ex. doc. 55; serial number 2953.
Letter from Secretary of Agriculture, transmitting detailed statement of all expenditures of appropriations for year ending June 30, 1891. January 7, 1892. 134 pp.
- (50) 52d Cong., 1st sess., S. ex. doc. 45; serial number 2900.
Letter from Secretary of Agriculture, in response to resolution, transmitting report of agent of Department of Agriculture for making experiments in production of rainfall. February 25, 1892. 59 pp. 9 pl.
- (51) 52d Cong., 1st sess., S. ex. doc. 75; serial number 2900.
Letter from Secretary of Agriculture, in response to resolution, relative to certain employes in Department. April 12, 1892. 5 pp.
- (52) 52d Cong., 2d sess., S. ex. doc. 20; serial number 3056.
Letter from Secretary of Agriculture, transmitting annual report of Bureau of Animal Industry for 1892. January 5, 1893. 229 pp.
- (53) 52d Cong., 2d sess., H. ex. doc. 251; serial number 3107.
Letter from Secretary of Agriculture, transmitting statement showing expenditure of appropriation for experiments in manufacture of sugar. March 2, 1893. 3 pp.
- (54) 53d Cong., 2d sess., H. ex. doc. 14; serial number 3223.
Letter from Secretary of Agriculture, transmitting detailed statement of expenditures of all appropriations for fiscal year ending June 30, 1893. December 5, 1893. 208 pp.

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- (55) 53d Cong., 2d sess., S. ex. doc. 72; serial number 3160.
Letter from Secretary of Agriculture, in response to resolution, relative to wheat crop of United States. April 4, 1894. 2 pp.
- (56) 53d Cong., 2d sess., S. ex. doc. 125; serial number 3163.
Letter from Secretary of Agriculture, in response to resolution, calling for statement of visible and invisible supply of wheat likely to be in United States on July 1, 1894, and other information concerning crops for 1894. June 29, 1894. 2 pp.
- (57) 53d Cong., 2d sess., S. ex. doc. 172; serial number 3163.
Letter from Secretary of Agriculture, in response to resolution, transmitting information in relation to investigations and experiments in planting native pine seed for growth of native pine in sand hills of the Northwest, and other information called for in resolution. August 2, 1894. 14 pp.
(Contains extract from report of Forestry Division, 1892, on forest-planting experiments in Nebraska.)
- (58) 53d Cong., 3d sess., H. ex. doc. 8; serial number 3319.
Letter from Secretary of Agriculture, transmitting detailed statement of expenditures for fiscal year ending June 30, 1894. December 3, 1894. 180 pp.
- (59) 53d Cong., 3d sess., S. ex. doc. 69; serial number 3280.
Letter from Secretary of Agriculture, in response to resolution, transmitting information in relation to machinery and other materials furnished by General Government and used for experimenting in manufacture of sugar. February 12, 1895. 6 pp.
- (60) 54th Cong., 1st sess., H. doc. 25; serial number 3390.
Letter from Secretary of Agriculture, transmitting detailed statement of expenditures of all appropriations for fiscal year ended June 30, 1895, including supplemental account to date. December 6, 1895. 189 pp.
- (61) 54th Cong., 1st sess., H. doc. 208; serial number 3420.
Letter from Secretary of Agriculture, replying to resolution relating to efficiency of employees in certain Executive Departments. February 6, 1896. 1 p.
- (62) 54th Cong., 1st sess., S. doc. 248; serial number 3354.
Letter from Secretary of Agriculture in response to resolution directing Secretary of Agriculture to immediately communicate to Senate reasons for delay in supplying seeds for distribution. May 8, 1896. 2 pp.
- (63) 54th Cong., 1st sess., S. doc. 267; serial number 3354.
Letter from Acting Secretary of Agriculture relating to bill for further prevention of cruelty to animals in District of Columbia. May 20, 1896. 6 pp.
- (64) 54th Cong., 2d sess., H. doc. 232; serial number 3524.
Letter from Secretary of Agriculture, replying to resolution, requesting information relating to production and export of castor beans. January 30, 1897. 1 p.
- (65) 54th Cong., 2d sess., H. doc. 275; serial number 3534.
Letter from Secretary of Agriculture, transmitting, in response to resolution, statement as to employees in Department. February 9, 1897. 162 pp.
- (66) 54th Cong., 2d sess., S. doc. 155; serial number 3471.
Letter from Secretary of Agriculture, communicating, in response to resolution, information relative to removal of certain employees in Bureau of Animal Industry at South Omaha. February 25, 1897. 13 pp.
- (67) 55th Cong., 1st sess., S. doc. 112; serial number 3562.
Letter from Secretary of Agriculture, in regard to bill entitled "A bill for further prevention of cruelty to animals in District of Columbia." May 26, 1897. 8 pp.
- (68) 55th Cong., 2d sess., H. doc. 26; serial number 3651.
Letter from Secretary of Agriculture, transmitting detailed statement of expenditures of all appropriations for fiscal year ending June 30, 1897. December 6, 1897. 218 pp.
- (69) 55th Cong., 2d sess., S. doc. 63; serial number 3592.
Letter from Secretary of Agriculture, in response to resolution, relative to sugar importation, production, and consumption in United States. January 17, 1898. 4 pp.

- (70) 55th Cong., 2d sess., H. doc. 309; serial number 3679.
[Letter from Secretary of Agriculture, transmitting report on] adulteration of wheat flour. February 16, 1898. 42 pp.
- (71) 55th Cong., 3d sess., H. doc. 23; serial number 3768.
Letter from Secretary of Agriculture, transmitting detailed statement of expenditures of all appropriations for fiscal year ending June 30, 1898, including supplemental accounts to date. December 5, 1898. 214 pp.
- (72) 55th Cong., 3d sess., H. doc. 181; serial number 3813.
Report upon forestry investigations of Department of Agriculture, 1877-1898; by B. E. Fernow. Washington, Government Printing Office. 1899. 401 pp. 32 pl. 4°.
(Contains: Memorial of committee, American Association for Advancement of Science, in behalf of forest preservation, leading to establishment of Division of Forestry; List of publications relating to forestry issued from Department of Agriculture since 1877; Forests and forestry in United States; Forest policies of European nations; Forest conditions and methods of foreign management in Germany, with brief account of forest management in British India; Principles of silviculture; Principles of forest economy; Forest influences; Work in timber physics in Division of Forestry, by Filibert Roth; Metal ties for railways and economies in use of wooden ties, by E. E. Russell Tratman.)
- (73) 55th Cong., 3d sess., S. doc. 124; serial number 3735.
Message from President of United States, transmitting, in response to resolution, report of Secretary of Agriculture, regarding usefulness of reservoirs to agriculture in irrigated regions of the United States. February 18, 1899. 14 pp.
- (74) 56th Cong., 1st sess., H. doc. 173; serial number 3929.
Letter from Acting Secretary of Agriculture, presenting detailed statement of expenditures of all appropriations for fiscal year ending June 30, 1899. December 13, 1899. 234 pp.
- (75) 56th Cong., 1st sess., S. doc. 81; serial number 3850.
Letter from Secretary of Agriculture, in response to resolution, relative to expenditure of \$50,000,000 appropriated by Congress [to supply urgent deficiencies in appropriations for fiscal year ending June 30, 1898, and for prior years, and for other purposes]. January 16, 1900. 1 p.
- (76) 56th Cong., 1st sess., H. doc. 500; serial number 3929.
Message from President of United States, transmitting report of Secretary of Agriculture on work and expenditures of agricultural experiment stations for fiscal year ended June 30, 1899. March 8, 1900. 111 pp.
- (77) 56th Cong., 1st sess., S. doc. 277; serial number 3868.
Letter from Secretary of Agriculture, transmitting, in response to resolution, statement showing number of persons employed in Department of Agriculture, between certain ages. April 10, 1900. 2 pp.
- (78) 56th Cong., 2d sess., H. doc. 29; serial number 4116.
Letter from Secretary of Agriculture, presenting detailed statement of expenditures for year ending June 30, 1900. December 3, 1900. 247 pp.
- (79) 56th Cong., 2d sess., H. doc. 192; serial number 4148.
Letter from Secretary of Agriculture, relating to printing report on investigations of agricultural resources and capabilities of Porto Rico. December 13, 1900. 1 p.
- (80) 56th Cong., 2d sess., S. doc. 108; serial number 4033.
Irrigation investigations in California, under direction of Elwood Mead, assisted by William E. Smythe, Marsden Manson, J. M. Wilson, Charles D. Marx, Frank Soule, C. E. Grunsky, Edward M. Boggs, and James D. Schuyler. January 24, 1901. Washington, Government Printing Office, 1901. 73 pp.
- (81) 57th Cong., 1st sess., S. doc. 181; serial number 4234.
Tabulated statement prepared by Agricultural Department, for Senate Committee on Manufactures, showing adulteration of most common articles of food consumed in United States. February 11, 1902. Washington, Government Printing Office, 1902. 19 pp.

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- (82) 57th Cong., 1st sess., S. doc. 377; serial number 4245.

Letter from Secretary of Agriculture, transmitting detailed statement showing location, annual rental, etc., of quarters occupied by Department of Agriculture. May 29, 1902. 4 pp.

- (83) 57th Cong., 1st sess., H. doc. 29; serial number 4301.

Letter from Secretary of Agriculture, transmitting detailed statement of expenditures of all appropriations for fiscal year ending June 30, 1901, including supplemental accounts to October 14, inclusive. December 2, 1901. 274 pp.

- (84) 57th Cong., 1st sess., S. doc. 24; serial number 4220.

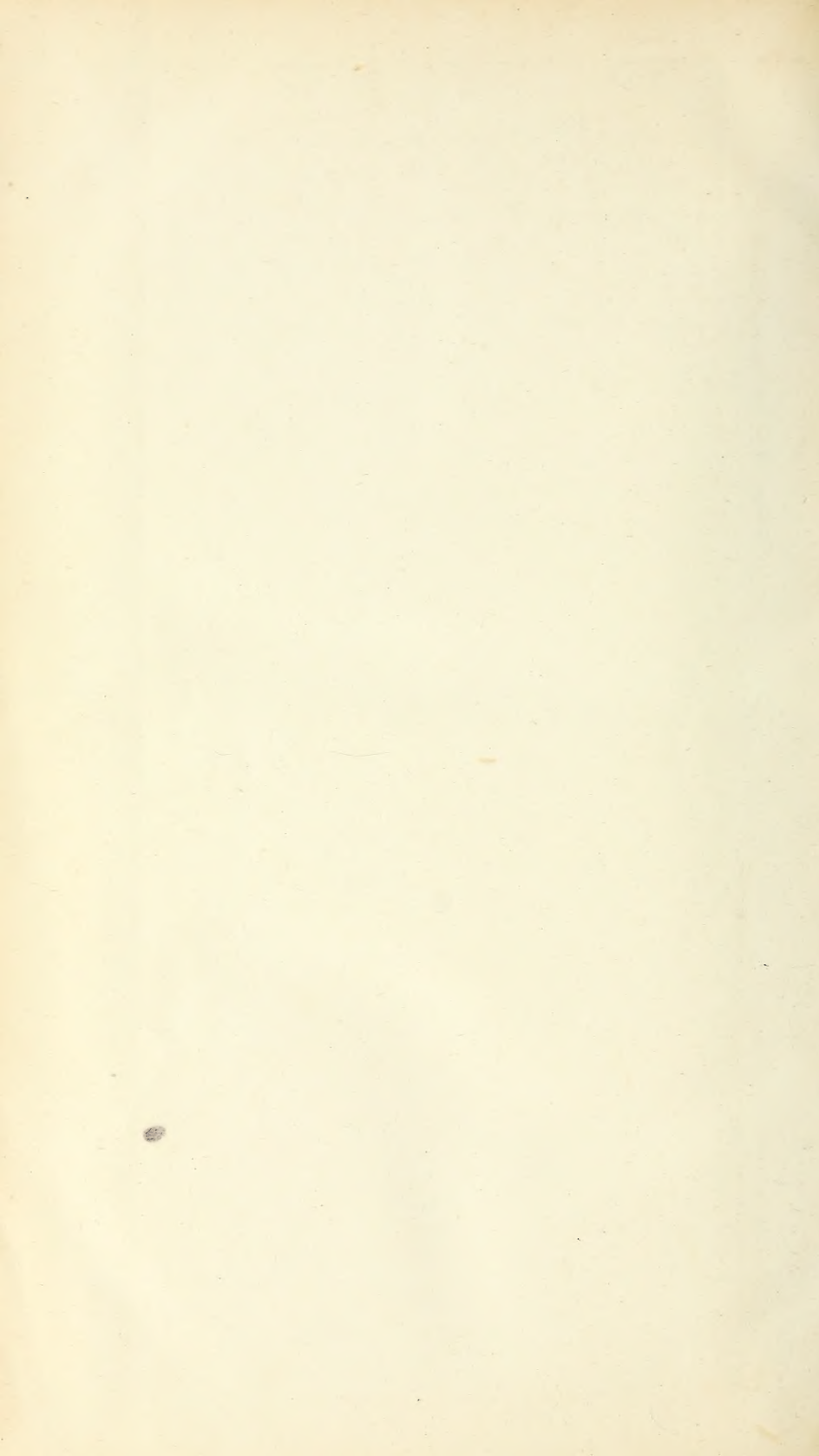
Report of Secretary of Agriculture in response to resolution, giving data regarding number of employees, ages, and salaries of each in his Department. December 4, 1901. 33 pp.

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